

Service Manual

ORDER NO.
CRT3631

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-N3_{/XU/UC}



is a trademark of DVD Format/Logo Licensing Corporation.

This service manual should be used together with the following manual(s) listed below.
For the parts numbers, adjustments, etc. which are not shown in this manual,
refer to the following manual(s).

| Model No. | Order No. | Mech.Module | Remarks |
|---------------|-----------|-------------|---|
| AVIC-N2/XU/UC | CRT3423 | | |
| CX-3016 | CRT3056 | MS3 | DVD Mech. Module:Circuit Description, Mech.Description, Disassembly |

This product has the unit part number as below.

| Unit Part No. | Description |
|---------------|-----------------|
| CPN2143 | Navigation Unit |
| CPN2145 | Hideaway Unit |

*) The unit part numbers listed above are not for the service components.

SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

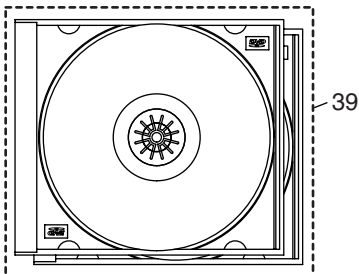
This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

EXPLODED VIEWS AND PARTS LIST

PACKING SECTION PARTS LIST

*:Non spare part

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-------|------------------------|---------------|------------------|
| | 3 | Carton | CHG5463 | CHG5689 |
| | 4 | Contain Box | CHL5463 | CHL5689 |
| | 38-2 | Owner's Manual | CRB2025 | CRB2147 |
| | 38-3 | Owner's Manual | CRB2026 | CRB2148 |
| | 38-4 | Owner's Manual/POC/FRE | CRB2027 | CRB2149 |
| | 38-5 | Owner's Manual/POC/FRE | CRB2028 | CRB2150 |
| | 38-6 | Installation Manual | CRD3957 | CRD4069 |
| * | 38-10 | Registration Card | CRY1238 | CRY1245 |
| | 38-13 | Owner's Manual | Not used | CRB2248(English) |
| | 38-14 | Owner's Manual/POC/FRE | Not used | CRB2249(French) |
| | 39 | DVD-ROM | Not used | CPJ1175 |



NAVIGATION UNIT (1)(Page 16)

NAVIGATION UNIT (1) SECTION PARTS LIST

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-----|---------------------------|---------------|---------------|
| | 14 | Case | CNB3214 | CNB3306 |
| | 16 | Holder | CND2812 | CNC9510 |
| | 18 | Bracket | CND2816 | CND1482 |
| | 19 | Bracket | CND2817 | CND1603 |
| | 29 | CC Unit | CWM9948 | CWN1873 |
| | 40 | Connector(CN608) | CKS3751 | CKS5075 |
| | 41 | Connector(CN2701) | CKS3810 | CKS5041 |
| | 42 | Connector(CN2) | CKS4052 | CKS5100 |
| | 44 | Connector(CN609) | CKS4068 | CKS5066 |
| | 45 | Connector(CN607) | CKS4132 | CKS5095 |
| | 50 | Connector(CN691) | CKS4814 | CKS5067 |
| | 51 | Shield | CND2822 | CND1949 |
| | 52 | Shield | CND2823 | CND1950 |
| | 56 | Holder | CND1954 | CND3406 |
| | 63 | Detach Grille Assy | CXC4305 | CXC6086 |
| | 68 | Button | CAC8434 | CAC9688 |
| | 73 | Connector(CN5901) | CKS3965 | CKS5083 |
| | 76 | Sub Grille Unit | CXC4636 | CXC6088 |
| | 77 | Knob Unit(VOLUME) | CXC4641 | CXC5979 |
| | 78 | Knob Unit(SELECT) | CXC4642 | CXC5980 |
| | 94 | DVD Mechanism Module(MS3) | CXK6325 | CXK6328 |
| | 99 | Mother Tuner Unit | CWM9946 | CWN1659 |
| | 100 | Connector(CN2801) | CKS4871 | CKS5085 |
| | 105 | Holder | CND2824 | CND3405 |
| | 106 | Sheet | CNM9536 | CNN1300 |

NAVIGATION UNIT (2)(Page 18)

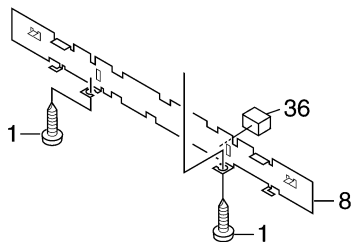
NAVIGATION UNIT (2) SECTION PARTS LIST

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-----|--------------|---------------|---------------|
| | 81 | Holder | CND2813 | CND2890 |
| | 83 | Cover | CNS7760 | CNS8617 |
| | 85 | Flexible PCB | CNP9517 | CNP9540 |

NAVIGATION UNIT (3)(Page 20)

NAVIGATION UNIT (3) SECTION PARTS LIST

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-----|-------------------------|---------------|--------------------------|
| A | 2 | Button(NAVI/AV) | CAC8427 | CAC9755 |
| | 5 | Button(DIS,PGM) | CAC8504 | CAC9754(DIS,PGM) |
| | 6 | LCD | CAW1870 | CAW1920 |
| | 12 | Sheet | CNM8858 | Not used |
| | 14 | Lighting Conductor | CNV8570 | CNV8972 |
| B | 15 | Touch Panel | CSX1083 | CSX1085 |
| | 23 | Monitor Unit | CWM9950 | CWN1848 |
| | 24 | Connector(CN4801) | CKS3991 | CKS5049 |
| | 25 | Connector(CN4005) | CKS4054 | CKS5034 |
| | 26 | Connector(CN4301) | CKS4054 | CKS5034 |
| | 29 | Connector(CN4003) | CKS4595 | CKS5039 |
| | 30 | Connector(CN5001) | CKS4595 | CKS5039 |
| | 31 | Connector(CN4681) | CKS4675 | CKS5105 |
| | 32 | Connector(CN4002) | CKS4793 | CKS5094 |
| | 33 | Connector(CN4701) | CKS4818 | CKS4961 |
| C | 35 | Display Sub Grille Unit | CXC4634 | CXC6082(Sub Grille Unit) |
| | 36 | Gasket | Not used | CNN1289 |



HIDEAWAY UNIT AND CORD ASSY (Page 22)

HIDEAWAY UNIT AND CORD ASSY SECTION PARTS LIST

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-----|-------------------|---------------|---------------|
| E | 6 | Case | CNB3154 | CNB3305 |
| | 7 | Holder | CND2821 | CND1905 |
| | 10 | Mother Tuner Unit | CWM9946 | CWN1659 |
| | | Cord | CDE8040 | CDE8188 |

DVD MECHANISM MODULE (Page 24)

DVD MECHANISM MODULE SECTION PARTS LIST

| Mark | No. | Description | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------|-----|--------------------|---------------|---------------|
| | 1 | DVD Core Unit(MS3) | CWX2941 | CWX3371 |
| | 3 | Connector(CN1401) | CKS4052 | CKS5100 |
| | 4 | Connector(CN1202) | CKS4624 | CKS5017 |
| | 5 | Connector(CN1611) | CKS4052 | CKS5100 |
| | 7 | Connector(CN1101) | CKS4625 | CKS4842 |
| | 8 | Connector(CN1201) | CKS4067 | CKS5043 |

ELECTRICAL PARTS LIST(Page 151)

CC UNIT

| Circuit Symbol and No. | Part Name | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------------------------|-----------|---------------|---------------|
| IC110 | IC | PEH005B | PEH031A |
| IC111 | IC | PEH006B | PEH032A |
| D974 | Diode | UDZ12(B) | UDZS12(B) |
| S151 | Switch | Not used | CSH1070 |

MOTHER TUNER UNIT

| Circuit Symbol and No. | Part Name | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------------------------|-----------|---------------|---------------|
| IC1603 | IC | PE5412B | PE5546A |
| GY1865 | Sensor | CSX1074 | CSX1096 |
| R2851 | | RS1/16S0R0J | Not used |
| R2852 | | RS1/16S0R0J | Not used |
| R2853 | | RS1/16S0R0J | Not used |
| R2854 | | RS1/16S0R0J | Not used |
| R2855 | | RS1/16S0R0J | Not used |
| R2856 | | RS1/16S0R0J | Not used |
| C1868 | | Not used | CKSRYB153K50 |

MONITOR UNIT

| Circuit Symbol and No. | Part Name | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------------------------|-----------|---------------|-----------------|
| D5003 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| D5005 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| D5007 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| D5008 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| D5009 | Diode | RB751V40 | RB751V-40 |
| R5022 | | RS1/16SS181J | RS1/16SS270J |
| C5030 | | Not used | CKSRYB104K16 |
| C5031 | | Not used | CKSRYB104K16 |

KEYBOARD UNIT

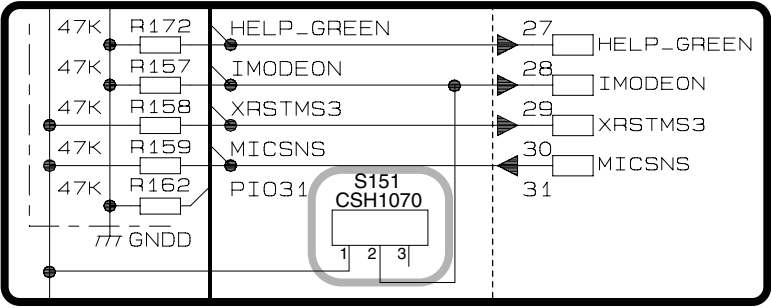
| | Circuit Symbol and No. | Part Name | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|---|------------------------|-----------|---------------|-----------------|
| A | D5504 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5505 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5509 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5510 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5513 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| B | D5515 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| | D5516 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| | D5518 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| | D5521 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| | D5522 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| C | D5524 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5526 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5529 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5530 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5534 | LED | CL-195PG-CD | CL-190UB2-X(DE) |
| D | D5537 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | D5540 | LED | CL-190UB2-X | CL-190UB2-X(DE) |
| | R5501 | | RS1/16SS121J | RS1/16SS101J |
| | R5511 | | RS1/16SS121J | RS1/16SS101J |
| | R5512 | | RS1/16SS121J | RS1/16SS101J |
| E | R5517 | | RS1/16S151J | RS1/16S331J |
| | R5519 | | RS1/16SS121J | RS1/16SS101J |
| | R5522 | | RS1/16SS121J | RS1/16SS101J |
| | R5524 | | RS1/16SS121J | RS1/16SS101J |
| | R5530 | | RS1/16SS121J | RS1/16SS101J |
| F | R5532 | | RS1/16SS121J | RS1/16SS101J |
| | R5534 | | RS1/16SS121J | RS1/16SS101J |
| | R5536 | | RS1/16SS121J | RS1/16SS101J |
| | R5538 | | RS1/16SS121J | RS1/16SS101J |
| | R5540 | | RS1/16SS121J | RS1/16SS101J |
| G | R5541 | | RS1/16SS121J | RS1/16SS101J |
| | R5543 | | RS1/16SS121J | RS1/16SS101J |
| | R5599 | | RS1/16SS121J | RS1/16SS101J |
| | C5501 | | Not used | CKSRYB104K16 |
| | C5502 | | Not used | CKSRYB104K16 |
| H | C5503 | | Not used | CKSRYB104K16 |
| | C5504 | | Not used | CKSRYB104K16 |
| | C5512 | | Not used | CKSRYB104K16 |
| | C5513 | | Not used | CKSRYB104K16 |
| | C5517 | | Not used | CKSRYB104K16 |
| I | C5519 | | Not used | CKSRYB104K16 |
| | C5521 | | Not used | CKSRYB104K16 |
| | C5522 | | Not used | CKSRYB104K16 |

DVD CORE UNIT(MS3)

| Circuit Symbol and No. | Part Name | AVIC-N2/XU/UC | AVIC-N3/XU/UC |
|------------------------|------------|---------------|----------------|
| IC1401 | IC | TC74LCX245FT | TC74LCX245FTS1 |
| IC1402 | IC | TC7SH04FU | TC7SH04FUS1 |
| IC1403 | IC | TC74LCX244FT | TC74LCX244FTS1 |
| IC1405 | IC | TC74LCX244FT | TC74LCX244FTS1 |
| IC1706 | IC | TC7SH08FU | TC7SH08FUS1 |
| Q1201 | Transistor | DTC124EU | DTC124EUA |
| D1301 | Diode | UDZ2R7(B) | UDZS2R7(B) |
| C1204 | | CEV101M16 | CEVW101M16 |

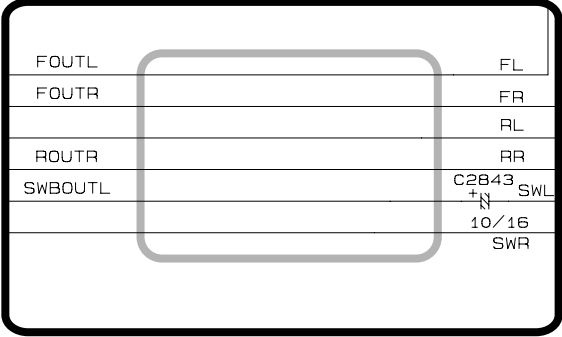
Page 65 Address 6B

A



B

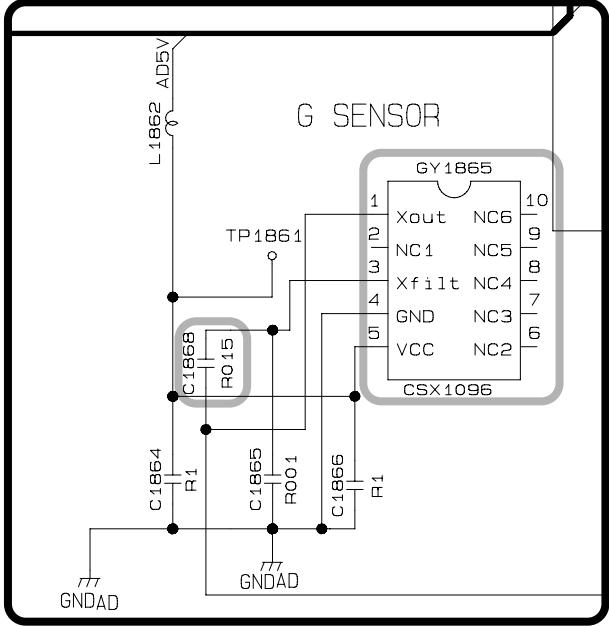
Page 102 Address 4D



C

Page 111 Address 5E

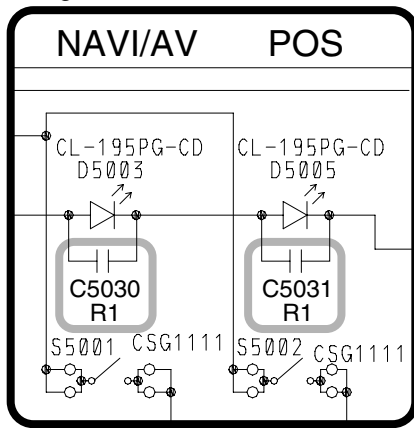
D



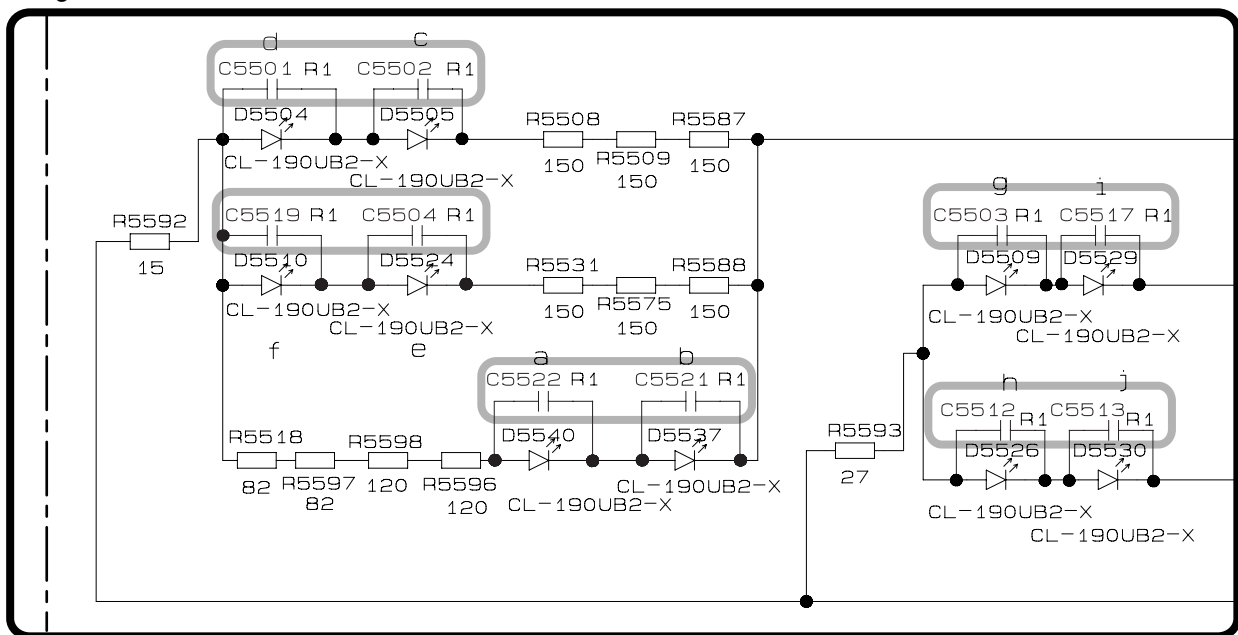
E

F

Page 100 Address 3B



Page 72 Address 2E

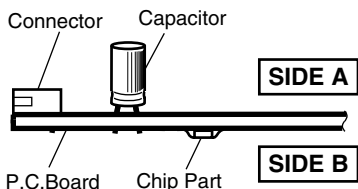


PCB CONNECTION DIAGRAM

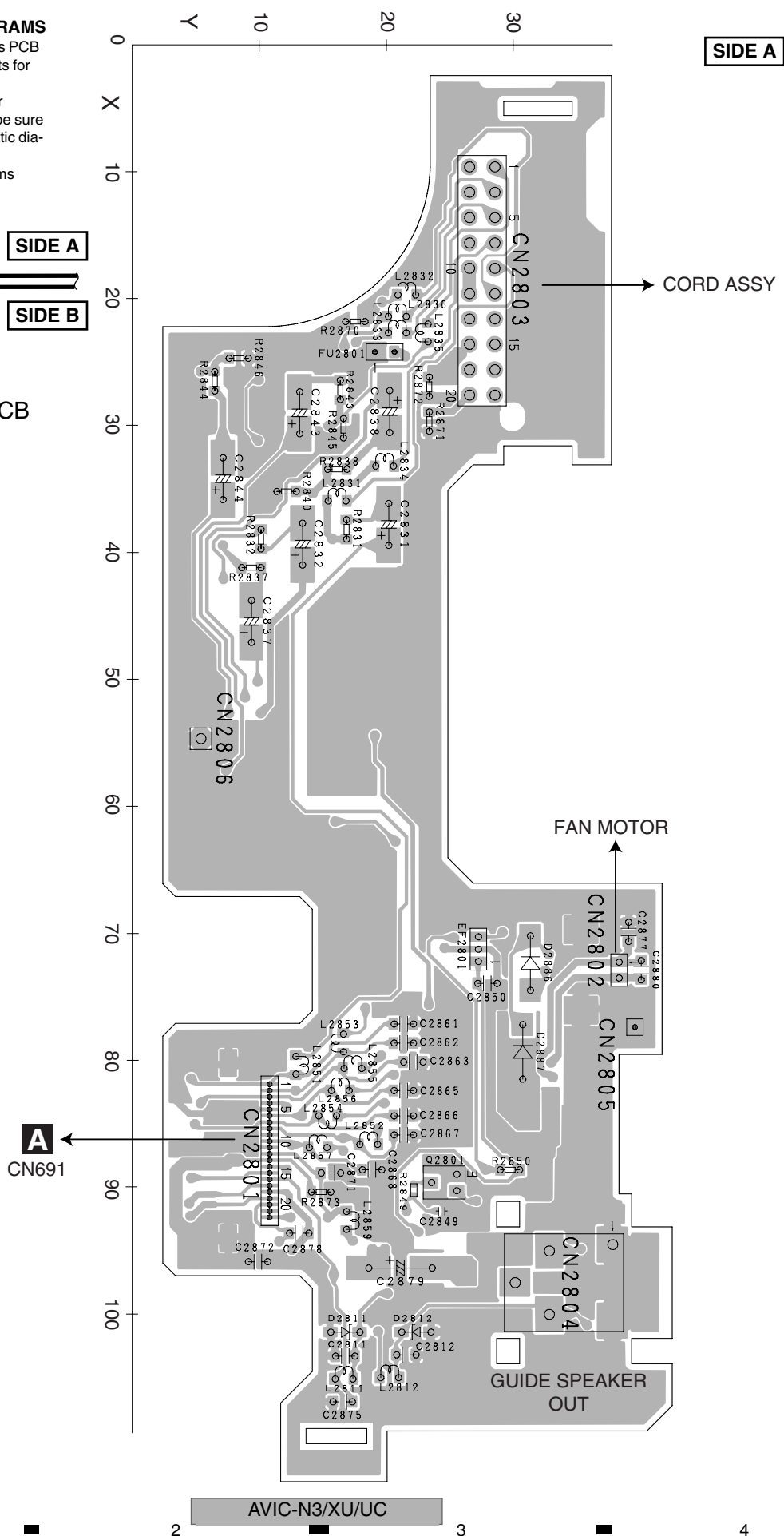
RELAY PCB

NOTE FOR PCB DIAGRAMS

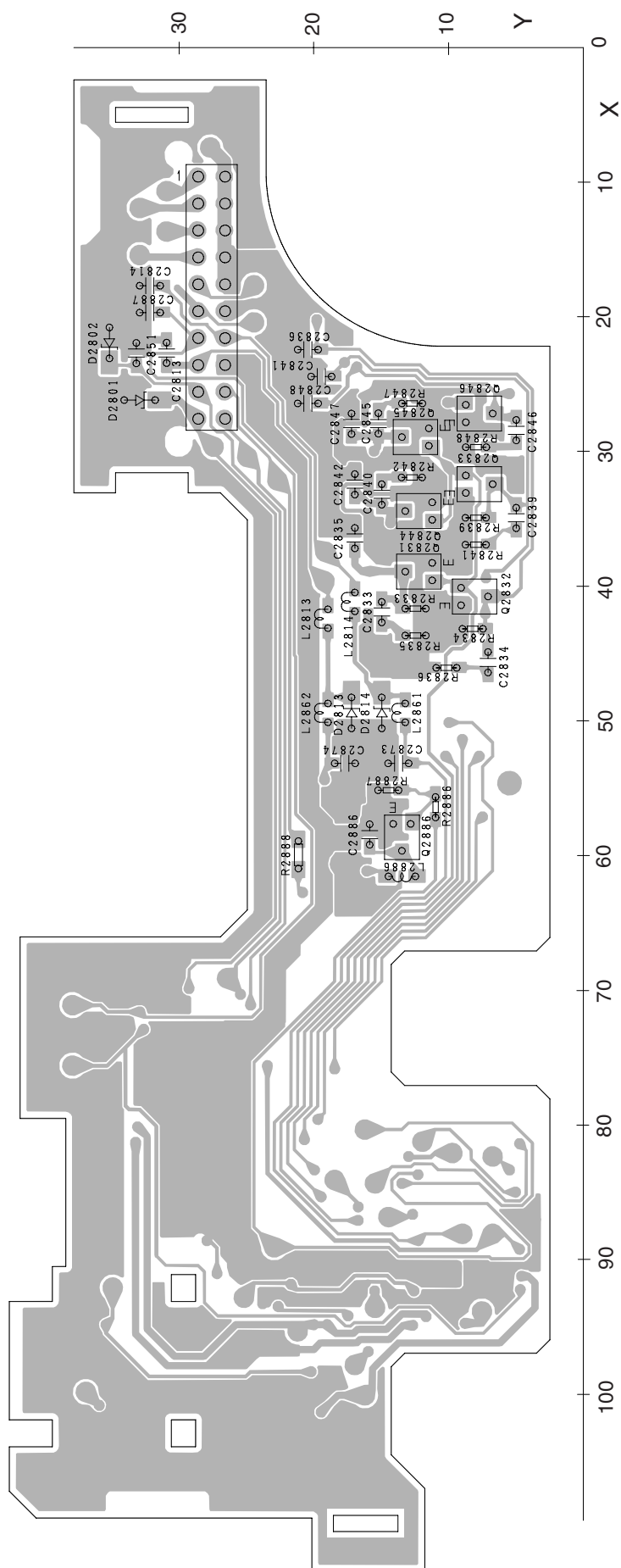
1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



JF RELAY PCB

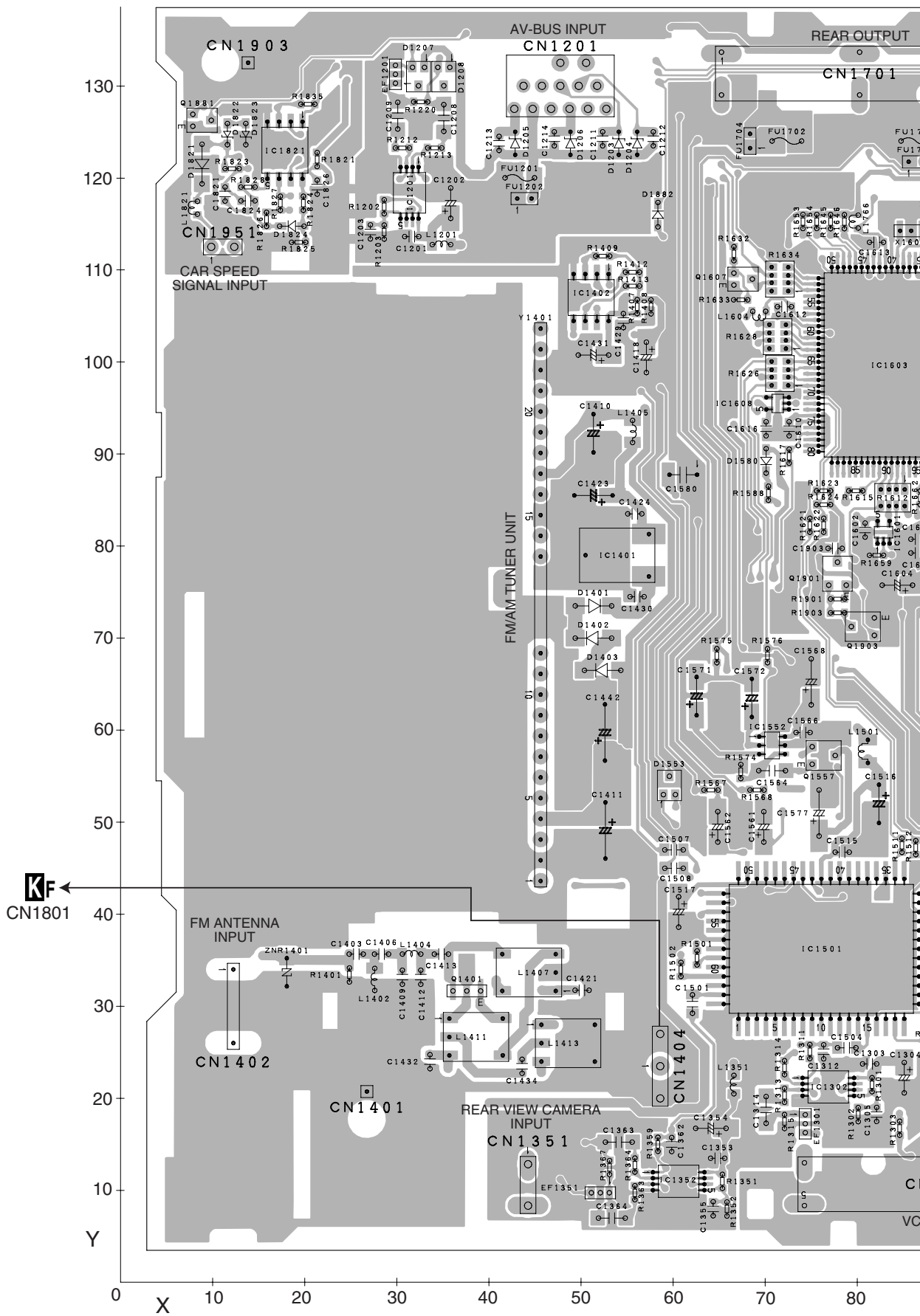


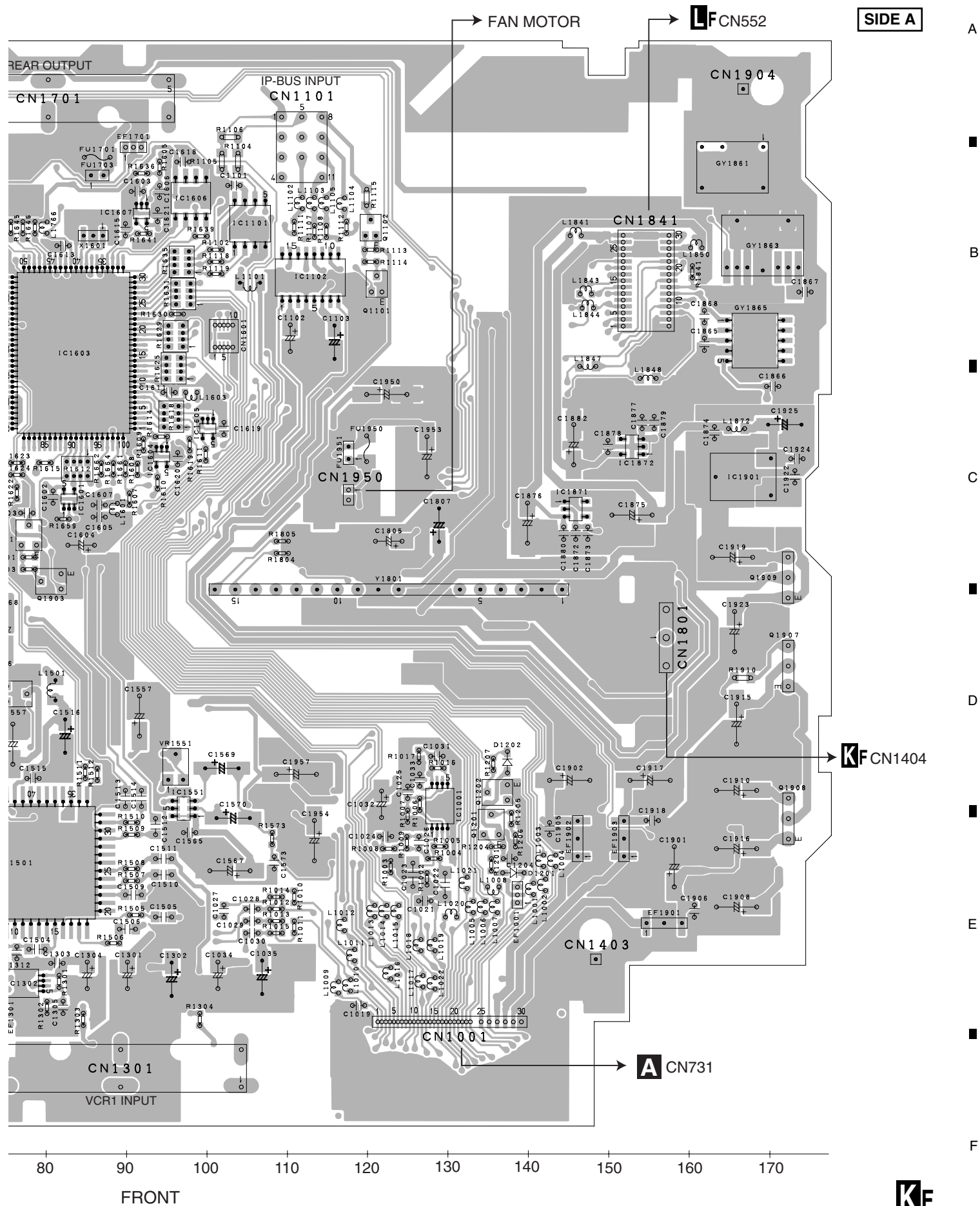
SIDE B

JF RELAY PCB

MOTHER PCB

KF MOTHER PCB





CONNECTOR PCB

A

LF CONNECTOR PCB

SIDE A

LF CONNECTOR PCB

SIDE B

KF CN1841

P CN461

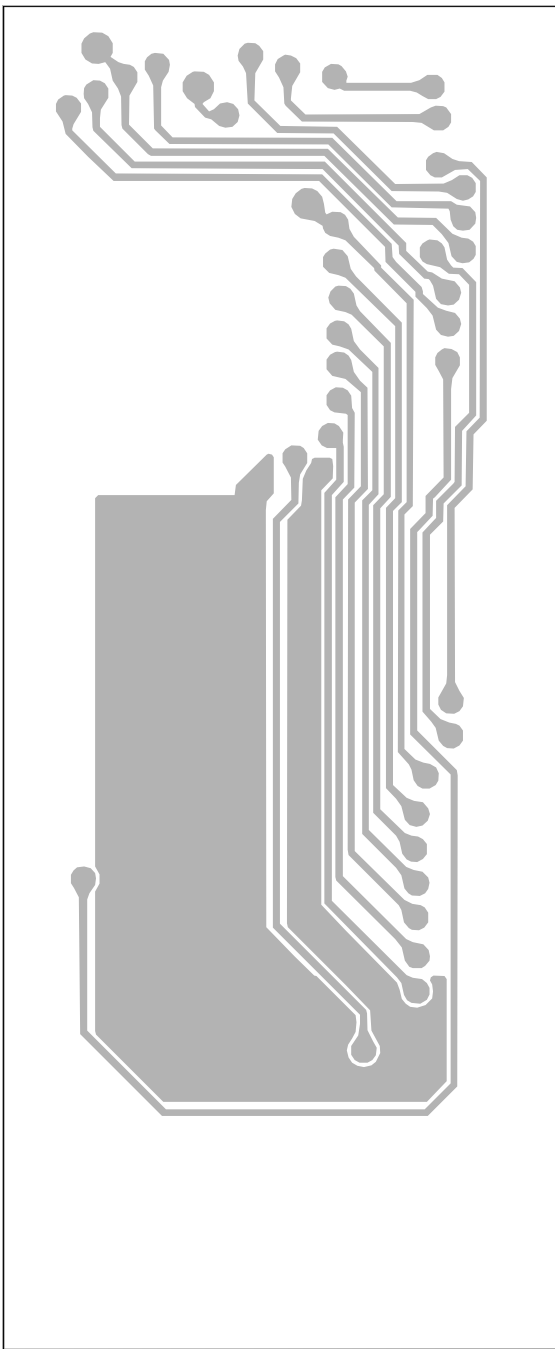
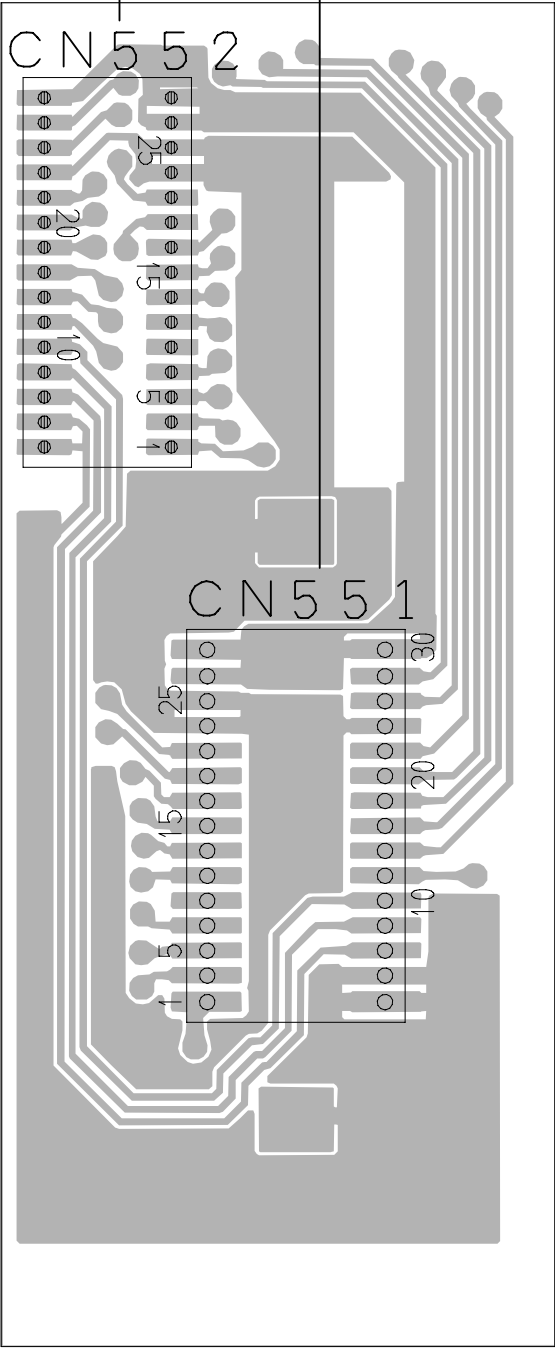
B

C

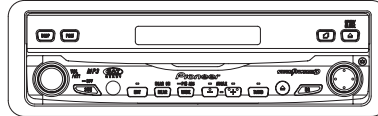
D

E

F



Service Manual



AVIC-N2/XU/UC

ORDER NO.
CRT3423

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-N2_{/XU/UC}

DVD AV NAVIGATION HEAD-UNIT

AVIC-X1R_{/XU/EW}

This service manual should be used together with the following manual(s):

| Model No. | Order No. | Mech.Module | Remarks |
|-----------|-----------|-------------|--|
| CX-3016 | CRT3056 | MS3 | DVD Mech. Module:Circuit Description, Mech. Description, Disassembly |

NOTE:

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

This product has the unit part number as below.

| Unit Part No. | Description |
|---------------|---------------------------------|
| CPN1955 | Navigation Unit(AVIC-N2/XU/UC) |
| CPN1953 | Hideaway Unit(AVIC-N2/XU/UC) |
| CPN1954 | Navigation Unit(AVIC-X1R/XU/EW) |
| CPN1952 | Hideaway Unit(AVIC-X1R/XU/EW) |

*) The unit part numbers listed above are not for the service components.



For details, refer to "Important Check Points for Good Servicing".

SAFETY INFORMATION

UC

CAUTION

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WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

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EW

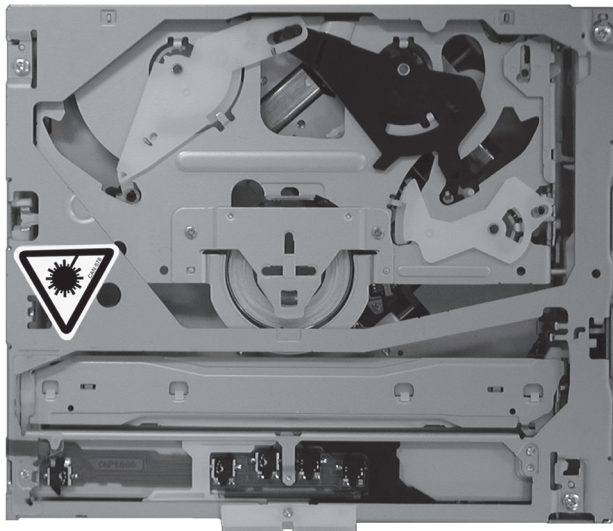
1. Safety Precautions for those who Service this Unit.

- Follow the adjustment steps in the service manual when servicing this unit. When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

2. The triangular label is attached to the mechanism unit frame.



CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location: on the bottom of the unit



En

On the top of the player.

| | |
|-----------------|---|
| CAUTION | · VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. · AVOID EXPOSURE TO BEAM. |
| VORSICHT | · SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN! |
| ADVARSEL | · SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING · UNDGÅ UDSÆTTELSE FOR STRÅLING. |
| VARNING | · SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA · DEL ÄR ÖPPNAD BETRÄKTA EJ STRÅLEN. |
| VARO! | · AVATTAESSA ALTISTUT NÄKYVÄ JA NÄKYMÄTTÖMÄLLE · LASERSATEIL YLLE. ÄLÄ KATSO SÄTEESÄ. |

VRV1860

WARNING!

The AEL (accessible emission level) of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.

A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length:

DVD:640~660nm

CD:770~810nm

Maximum output:2.48mw(Emitting period :9sec.)

DVD:705μw(Emitting period : unlimited)

Additionla Laser Caution

Transistors Q1101 and Q1102 in PCB drive the laser diodes for DVD and CD respectively. When Q1101 or Q1102 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

● Service Precautions

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

DVD MECHANISM MODULE section precaution

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
3. After replacing the pickup unit, be sure to check the grating.
4. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

NAVIGATION UNIT section precaution

1. Inverter for LCD back light becomes a high voltage.
2. When inspecting the touch panel, use something thin with a round tip such as the touch pen. Furthermore, do not apply excessive force to the touch panel.
3. Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 and GGF1463 at the time of monitor adjustment. As you will find lands for 14 pins with 0.8mm pitch at the left top part of the monitor board, directly solder a flexible PCB of GGD1323 for adjustment. As GGD1322 is not used, be careful not to short the terminal.
4. The region code determination at the time of DVD hardware change is made by the destination (UC: Region 1, EW: Region 2) of the car control unit.
5. If you reconnected the Hide-away unit, press the RESET button.



is a trademark of DVD Format/Logo Licensing Corporation.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

| | | |
|---|---|-----|
| | SAFETY INFORMATION | 2 |
| | 1. SPECIFICATIONS | 8 |
| A | 2. EXPLODED VIEWS AND PARTS LIST | 12 |
| | 2.1 PACKING (AVIC-N2/XU/UC) | 12 |
| | 2.2 PACKING (AVIC-X1R/XU/EW) | 14 |
| | 2.3 NAVIGATION UNIT (1) | 16 |
| | 2.4 NAVIGATION UNIT (2) | 18 |
| | 2.5 NAVIGATION UNIT (3) | 20 |
| | 2.6 HIDEAWAY UNIT AND CORD ASSY | 22 |
| | 2.7 DVD MECHANISM MODULE | 24 |
| | 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM | 26 |
| | 3.1 BLOCK DIAGRAM | 26 |
| | 3.2 OVERALL CONNECTION DIAGRAM | 40 |
| B | 3.3 CC UNIT (P/S)(GUIDE PAGE) | 42 |
| | 3.4 CC UNIT (SYSCOM, VIDEO, IF)(GUIDE PAGE) | 48 |
| | 3.5 CC UNIT (AUDIO)(GUIDE PAGE) | 54 |
| | 3.6 CC UNIT (CPU, ASIC, SDRAM)(GUIDE PAGE) | 60 |
| | 3.7 CC UNIT (GRAPHIC) | 66 |
| | 3.8 CC UNIT (MAIN, CC CORE I/F) | 68 |
| | 3.9 CC UNIT (ROM, SRAM, BUS-BUFFER) | 70 |
| | 3.10 KEYBOARD PCB | 72 |
| | 3.11 PANEL PCB | 74 |
| | 3.12 DVD CORE UNIT(MS3)(SODC)(GUIDE PAGE) | 76 |
| | 3.13 DVD CORE UNIT(MS3)(CPU)(GUIDE PAGE) | 82 |
| | 3.14 COMPOUND UNIT(A) AND COMPOUND UNIT(B) | 90 |
| C | 3.15 PU UNIT(REFERENCE) | 91 |
| | 3.16 MONITOR PCB AND UPPER PCB(GUIDE PAGE) | 92 |
| | 3.17 INVERTER PCB | 100 |
| | 3.18 RELAY PCB | 102 |
| | 3.19 MOTHER PCB (H/A SYSTEM)(GUIDE PAGE) | 104 |
| | 3.20 MOTHER PCB (SENSOR) | 110 |
| | 3.21 CONNECTOR PCB | 112 |
| | 3.22 MAIN UNIT, SW UNIT AND VOLUME UNIT | 114 |
| | 3.23 GPS UNIT(GUIDE PAGE) | 116 |
| | 4. PCB CONNECTION DIAGRAM | 122 |
| | 4.1 CC UNIT | 122 |
| | 4.2 KEYBOARD PCB | 126 |
| D | 4.3 PANEL PCB | 127 |
| | 4.4 DVD CORE UNIT(MS3) | 128 |
| | 4.5 COMPOUND UNIT(A) AND COMPOUND UNIT(B) | 132 |
| | 4.6 CONNECTOR PCB | 133 |
| | 4.7 MONITOR PCB | 134 |
| | 4.8 UPPER PCB | 138 |
| | 4.9 INVERTER PCB | 139 |
| | 4.10 RELAY PCB | 140 |
| | 4.11 MOTHER PCB | 142 |
| | 4.12 GPS UNIT | 146 |
| | 4.13 MAIN UNIT | 148 |
| | 4.14 SW UNIT AND VOLUME UNIT | 150 |
| E | 5. ELECTRICAL PARTS LIST | 151 |
| | 6. ADJUSTMENT | 192 |
| | 6.1 JIG CONNECTION DIAGRAM | 192 |
| | 6.2 DVD ADJUSTMENT | 193 |
| | 6.3 CC UNIT ADJUSTMENT | 213 |
| | 6.4 MOTHER PCB ADJUSTMENT | 215 |
| | 6.5 INVERTER PCB ADJUSTMENT | 217 |
| | 6.6 MONITOR PCB ADJUSTMENT | 218 |
| | 6.7 TEST MODE | 227 |
| | 6.8 USING THE TEST DISC | 249 |
| | 7. GENERAL INFORMATION | 262 |
| F | 7.1 DIAGNOSIS | 262 |
| | 7.1.1 DISASSEMBLY | 262 |
| | 7.1.2 PCB LOCATIONS | 270 |
| | 7.1.3 CONNECTOR FUNCTION DESCRIPTION | 271 |
| | 7.2 PARTS | 273 |

| | |
|------------------------------------|-----|
| 7.2.1 IC | 273 |
| 7.2.2 DISPLAY | 292 |
| 7.3 EXPLANATION | 293 |
| 7.3.1 MECHANISM DESCRIPTIONS | 293 |
| 7.3.2 OPERATIONAL FLOW CHART | 299 |
| 7.4 CLEANING | 303 |
| 8. OPERATIONS | 304 |

1. SPECIFICATIONS

● AVIC-N2/XU/UC

General

Rated power source 14.4 V DC
(10.8 - 15.1 V allowable)

Grounding system Negative type

Max. current consumption

..... 10.0 A

Backup current 6.5 mA or less

Display unit:

Dimensions (W x H x D):

DIN

Chassis 178 x 50 x 160 mm

(7 x 2 x 6-1/4 in.)

Nose 188 x 58 x 34 mm

(7-3/8 x 2-1/4 x 1-3/8 in.)

D

Chassis 178 x 50 x 165 mm

(7 x 2 x 6-1/2 in.)

Nose 170 x 46 x 29 mm

(6-3/4 x 1-3/4 x 1-1/4 in.)

Weight 2.5 kg(5.5 lbs)

Hideaway unit:

Dimensions (W x H x D)

..... 180 x 30 x 140 mm

(5-7/8 x 1-1/8 x 3-7/8 in.)

Weight 0.7 kg(1.5 lbs)

Navigation

GPS Receiver:

System L1, C/Acode GPS

SPS (Standard Positioning Service)

Reception system 8-channel multi-channel
reception system

Reception frequency ... 1,575.42 MHz

Sensitivity -130 dbm

Position update frequency

..... Approx. once per second

GPS antenna:

Antenna Micro strip flat antenna/
right-handed helical polarization

Antenna cable 5.0 m(16 ft. 5 in.)

Dimensions (W x H x D)

..... 33 x 13 x 36 mm

(1-1/4 x 1/2 x 1-3/8 in.)

Weight 105 g(0.23 lbs)

Display

Screen size/aspect ratio 6.5 inch wide/16:9
(effective display area: 144 x
76 mm)

Pixels 336,960 (1,440 x 234)

Type TFT active matrix,
transmissive type

Color system NTSC

Operating temperature range

..... -14 - +122 °F

Storage temperature range

..... -4 - +176 °F

Angle adjustment 50 - 110°

(initial settings: 110°)

Audio

Continuous power output is 22 W per channel minimum
into 4 ohms, both channels driven 50 to 15,000 Hz with
no more than 5% THD.

Maximum power output 50 W x 4

50 W x 2 ch/4 Ω + 70 W x 1

ch/2 Ω (for subwoofer)

Load impedance 4 Ω (4 - 8 Ω [2 Ω for 1 ch]
allowable)

Preout max output level/output impedance

..... 2.0 V/100 ohm

Equalizer (3-Band Parametric Equalizer):

Low

Frequency 40/80/100/160 Hz

Q Factor 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

Mid

Frequency 200/500/1k/2k Hz

Q Factor 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

High

Frequency 3.15k/8k/10k/12.5k Hz

Q Factor 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

Loudness contour

Low +3.5 dB (100 Hz), +3 dB (10
kHz)

Mid +10 dB (100 Hz), +6.5 dB
(10 kHz)

High +11 dB (100 Hz), +11 dB
(10 kHz)
(volume: -30 dB)

Tone controls:

Bass

Frequency 40/63/100/160 Hz

Gain ±12dB

Treble

Frequency 2.5k/4k/6.3k/10k Hz

Gain ±12dB

HPF:

Frequency 0/80/125 Hz

Slope -12 dB/oct

Subwoofer:

Frequency 50/80/125 Hz

Slope -18 dB/oct

Gain ±12dB

Phase Normal/Reverse

DVD Drive

| | |
|-----------------------------------|--|
| System..... | DVD-Video, Compact disc audio, MP3 system |
| Usable discs | DVD-Video, Compact disc, MP3 |
| Region number..... | 1 |
| Signal format: | |
| Sampling frequency.... | 44.1/48/96 kHz |
| Number of quantization bits | 16/20/24; linear |
| Frequency response | 5 – 44,000 Hz (with DVD, at sampling frequency 96 kHz) |
| Signal-to-noise ratio | 97 dB (1 kHz) (IHF-A network) (CD: 96 dB (1 kHz) (IHF-A network)) |
| Dynamic range | 95 dB (1 kHz) (CD: 94 dB (1 kHz)) |
| Distortion..... | 0.008 % (1 kHz) |
| Output level: | |
| Video | 1.0 Vp-p/75 Ω (± 0.2 V) |
| Audio | 1.0 V (1 kHz, 0 dB) |
| Number of channels..... | 2 (stereo) |
| MP3 decoding format | MPEG-1 & 2 Audio Layer 3 |

FM tuner

| | |
|---|--|
| Frequency range..... | 87.9 – 107.9 MHz |
| Usable sensitivity..... | 8 dBf (0.7 μ V/75 Ω , mono, S/N: 30 dB) |
| 50 dB quieting sensitivity..... | 10 dBf (0.9 μ V/75 Ω , mono) |
| Signal-to-noise ratio | 75 dB (IHF-A network) |
| Distortion..... | 0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono) |
| Frequency response | 30 – 15,000 Hz (± 3 dB) |
| Stereo separation | 45 dB (at 65 dBf, 1 kHz) |
| Selectivity | 80 dB (± 200 kHz) |
| Three-signal intermodulation (desired signal level) | 30 dBf (two undesired signal level: 100 dBf) |

AM tuner

| | |
|-----------------------------|--------------------------|
| Frequency range..... | 530 – 1,710 kHz (10 kHz) |
| Usable sensitivity..... | 18 μ V (S/N: 20 dB) |
| Signal-to-noise ratio | 65 dB (IHF-A network) |

Note:

- Specifications and the design are subject to possible modifications without notice due to improvements.

● AVIC-X1R/XU/EW

General

Rated power source 14.4 V DC
(allowable voltage range:
12.0 – 14.4 V DC)

Earthing system..... Negative type
Max. current consumption
..... 10.0 A

Backup current 6.5 mA or less

Display unit:

Dimensions (W x H x D):

DIN

Chassis 178 x 50 x 160 mm

Nose..... 188 x 58 x 34 mm

D

Chassis 178 x 50 x 165 mm

Nose..... 170 x 46 x 29 mm

Weight 2.5 kg

Hideaway unit:

Dimensions (W x H x D)

..... 180 x 30 x 140 mm

Weight 0.7 kg

Navigation

GPS Receiver:

System..... L1, C/Acode GPS

SPS (Standard Positioning Service)

Reception system 8-channel multi-channel
reception system

Reception frequency 1,575.42 MHz

Sensitivity –130 dbm

Position update frequency

..... Approx. once per second

GPS aerial:

Aerial Micro strip flat aerial/righthanded
helical polarization

Aerial cable 5.0 m

Dimensions (W x H x D)

..... 33 x 13 x 36 mm

Weight 105 g

Display

Screen size/aspect ratio 6.5 inch wide/16:9
(effective display area: 144 x
76 mm)

Pixels 336,960 (1,440 x 234)

Type..... TFT active matrix, transmissive
type

Colour system..... NTSC/PAL compatible

Operating temperature range

..... –10 – +50 °C

Storage temperature range

..... –20 – +80 °C

Angle adjustment..... 50 – 110°

(initial settings: 110°)

Audio

Maximum power output 50 W x 4

50 W x 2 ch/4 Ω + 70 W x 1
ch/2 Ω (for subwoofer)

Continuous power output.... 27 W x 4 (DIN 45324,
+B=14.4 V)

Load impedance..... 4 Ω (4 – 8 Ω [2 Ω for 1 ch]
allowable)

Preout max output level/output impedance

..... 2.0 V/100 ohm

Equalizer (3-Band Parametric Equalizer):

Low

Frequency 40/80/100/160 Hz

Q Factor..... 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

Mid

Frequency 200/500/1k/2k Hz

Q Factor..... 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

High

Frequency 3.15k/8k/10k/12.5k Hz

Q Factor..... 0.35/0.59/0.95/1.15 (+6 dB
when boosted)

Gain ±12dB

Loudness contour

Low +3.5 dB (100 Hz), +3 dB (10
kHz)

Mid..... +10 dB (100 Hz), +6.5 dB
(10 kHz)

High..... +11 dB (100 Hz), +11 dB
(10 kHz)
(volume: –30 dB)

Tone controls:

Bass

Frequency 40/63/100/160 Hz

Gain ±12dB

Treble

Frequency 2.5k/4k/6.3k/10k Hz

Gain ±12dB

HPF:

Frequency 50/80/125 Hz

Slope..... –12 dB/oct

Subwoofer:

Frequency 50/80/125 Hz

Slope..... –18 dB/oct

Gain ±12dB

Phase Normal/Reverse

DVD Drive

System..... DVD-Video, Compact disc
audio, MP3 system

Usable discs DVD-Video, Compact disc,
MP3

Region number..... 2

Signal format:

Sampling frequency..... 44.1/48/96 kHz

Number of quantization bits

..... 16/20/24; linear

Frequency response..... 5 – 44,000 Hz (with DVD, at
sampling frequency 96 kHz)

Signal-to-noise ratio 97 dB (1 kHz) (IEC-A network)

| | |
|---------------------------|-------------------------------------|
| | (CD: 96 dB (1 kHz) (IEC-A network)) |
| Dynamic range | 95 dB (1 kHz) |
| | (CD: 94 dB (1 kHz)) |
| Distortion..... | 0.008 % (1 kHz) |
| Output level: | |
| Video | 1.0 Vp-p/75 Ω (± 0.2 V) |
| Audio..... | 1.0 V (1 kHz, 0 dB) |
| Number of channels..... | 2 (stereo) |
| MP3 decoding format | MPEG-1 & 2 Audio Layer 3 |

FM tuner

| | |
|---------------------------------|--|
| Frequency range..... | 87.5 – 108.0 MHz |
| Usable sensitivity..... | 8 dBf (0.7 μ V/75 Ω , mono, S/N: 30 dB) |
| 50 dB quieting sensitivity..... | 10 dBf (0.9 μ V/75 Ω , mono) |
| Signal-to-noise ratio | 75 dB (IEC-A network) |
| Distortion..... | 0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono) |
| Frequency response | 30 – 15,000 Hz (± 3 dB) |
| Stereo separation | 45 dB (at 65 dBf, 1 kHz) |
| Selectivity | 80 dB (± 200 kHz) |

MW tuner

Frequency range..... 531 – 1,602 kHz (9 kHz)
Usable sensitivity..... 18 μ V (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

LW tuner



Frequency range..... 153 – 281 kHz (9 kHz)
Usable sensitivity..... 30 μ V (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

Note:

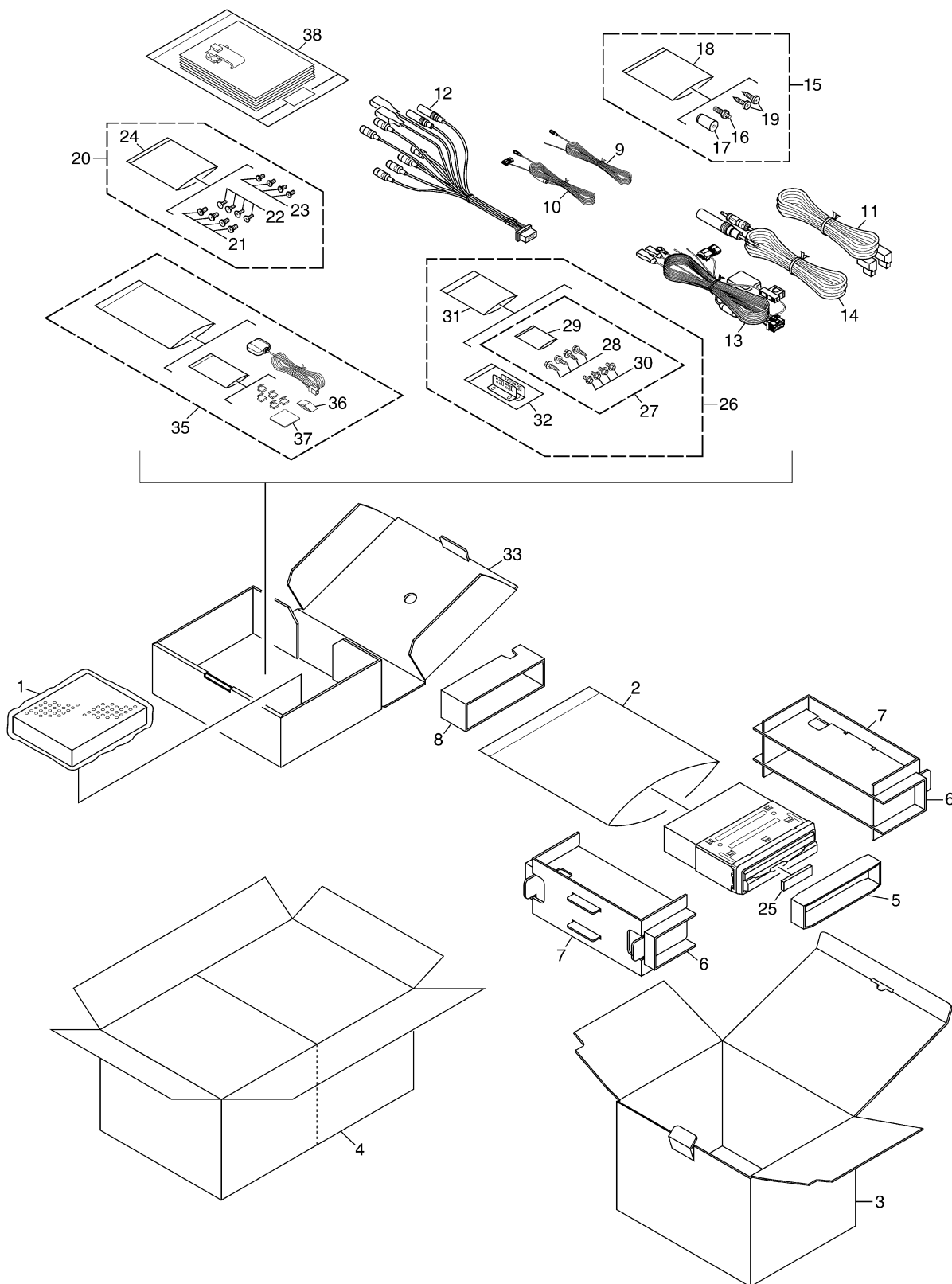
- Specifications and the design are subject to possible modifications without notice due to improvements.

2. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.

- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to  mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING (AVIC-N2/XU/UC)



PACKING (AVIC-N2/XU/UC) SECTION PARTS LIST

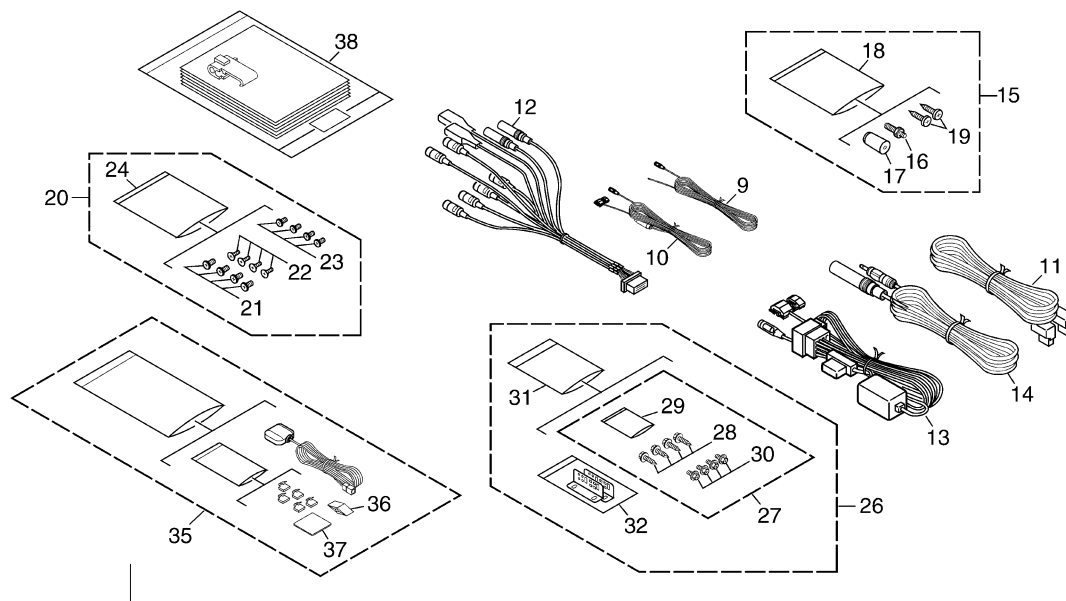
| Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|----------|--------------------|--------------|----------|------------------------|----------|
| 1 | Air Cushioned Bag | CEG1007 | * 31 | Polyethylene Bag | CEG1163 |
| 2 | Polyethylene Bag | CEG1173 | 32 | Angle Assy | CXC1079 |
| 3 | Carton | CHG5463 | 33 | Sub Carton | CHG5440 |
| 4 | Contain Box | CHL5463 | 34 | ***** | |
| 5 | Protector | CHP2879 | 35 | GPS Antenna Assy | CXC4864 |
| 6 | Protector | CHP2877 | 36 | Water Proof Pad | CZN5442 |
| 7 | Protector | CHP2876 | 37 | Sheet | CZN7008 |
| 8 | Protector | CHP2945 | 38-1 | Polyethylene Bag | CEG1116 |
| 9 | Cord | CDE5044 | 38-2 | Owner's Manual | CRB2025 |
| 10 | Cord | CDE6825 | 38-3 | Owner's Manual | CRB2026 |
| 11 | Cord Assy | CDE7398 | 38-4 | Owner's Manual/POC/FRE | CRB2027 |
| 12 | Cord Assy | CDE7399 | 38-5 | Owner's Manual/POC/FRE | CRB2028 |
| 13 | Cord Assy | CDE7487 | 38-6 | Installation Manual | CRD3957 |
| 14 | Antenna Cable | CDH1325 | 38-7 | Caution Card | CRP1310 |
| 15 | Accessory Assy | CEA3685 | * 38-8 | Card | ARY1048 |
| 16 | Screw | CBA1650 | 38-9 | Cleaning Cloth Assy | CEA3952 |
| 17 | Bush | CNV1917 | * 38-10 | Registration Card | CRY1238 |
| * 18 | Polyethylene Bag | E36-615 | * 38-11 | Caution Card | CRP1321 |
| 19 | Screw | JGZ20P070FTC | 38-12 | Connector | CKX1049 |
| 20 | Screw Assy | CEA3686 | | | |
| 21 | Screw | BMZ50P060FTC | | | |
| 22 | Screw(M4x6) | CBA1468 | | | |
| 23 | Screw | CMZ50P060FTC | | | |
| * 24 | Polyethylene Sheet | CNM4338 | | | |
| 25 | Spacer | CNM9149 | | | |
| 26 | Accessory Assy | CEA3996 | | | |
| 27 | Screw Assy | CEA4396 | | | |
| 28 | Screw | CBA1795 | | | |
| * 29 | Polyethylene Sheet | CNM4338 | | | |
| 30 | Screw | HMF40P080FTC | | | |

● Owner's Manual, Installation Manual

| Part No. | Language |
|------------------|-----------------|
| CRB2025, CRB2026 | English |
| CRB2027, CRB2028 | French |
| CRD3957 | English, French |

2.2 PACKING (AVIC-X1R/XU/EW)

A



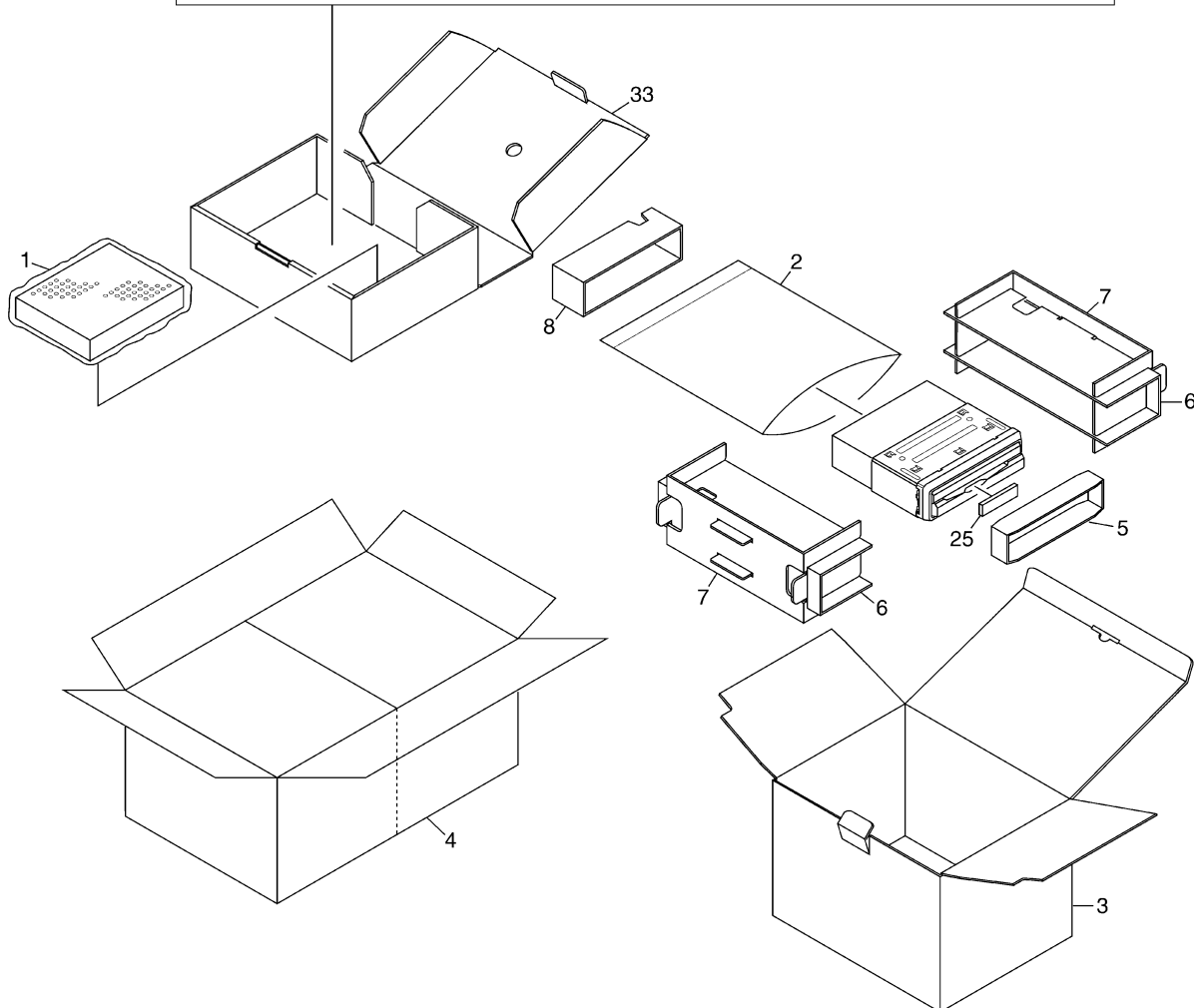
B

C

D

E

F



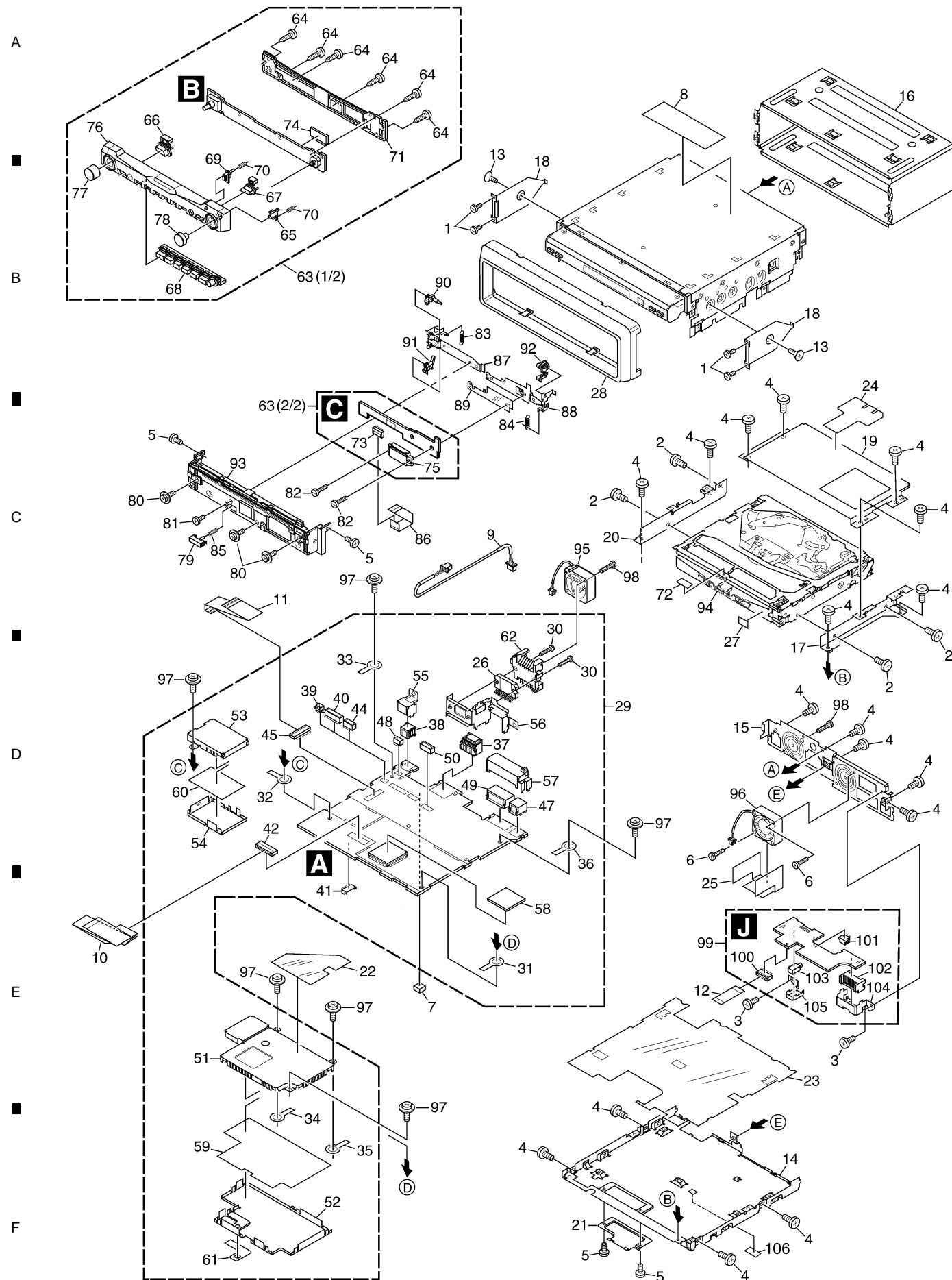
PACKING (AVIC-X1R/XU/EW) SECTION PARTS LIST

| Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|----------|--------------------|--------------|----------|------------------------|----------|
| 1 | Air Cushioned Bag | CEG1007 | * 31 | Polyethylene Bag | CEG1163 |
| 2 | Polyethylene Bag | CEG-162 | 32 | Angle Assy | CXC1079 |
| 3 | Carton | CHG5462 | 33 | Sub Carton | CHG5440 |
| 4 | Contain Box | CHL5462 | 34 | ••••• | |
| 5 | Protector | CHP2879 | 35 | GPS Antenna Assy | CXC4864 |
| 6 | Protector | CHP2877 | 36 | Water Proof Pad | CZN5442 |
| 7 | Protector | CHP2876 | 37 | Sheet | CZN7008 |
| 8 | Protector | CHP2945 | 38-1 | Polyethylene Bag | CEG1116 |
| 9 | Cord | CDE5044 | 38-2 | Owner's Manual/PEE/ENG | CRB2029 |
| 10 | Cord | CDE6825 | 38-3 | Owner's Manual/PEE/ENG | CRB2030 |
| 11 | Cord Assy | CDE7398 | 38-4 | Owner's Manual/PEE/SPA | CRB2031 |
| 12 | Cord Assy | CDE7399 | 38-5 | Owner's Manual/PEE/SPA | CRB2032 |
| 13 | Cord Assy | CDE7486 | 38-6 | Owner's Manual/PEE/GER | CRB2033 |
| 14 | Antenna Cable | CDH1325 | 38-7 | Owner's Manual/PEE/GER | CRB2034 |
| 15 | Accessory Assy | CEA3685 | 38-8 | Owner's Manual/PEE/FRE | CRB2035 |
| 16 | Screw | CBA1650 | 38-9 | Owner's Manual/PEE/FRE | CRB2036 |
| 17 | Bush | CNV1917 | 38-10 | Owner's Manual/PEE/ITA | CRB2037 |
| * 18 | Polyethylene Bag | E36-615 | 38-11 | Owner's Manual/PEE/ITA | CRB2038 |
| 19 | Screw | JGZ20P070FTC | 38-12 | Owner's Manual/PEE/DUT | CRB2039 |
| 20 | Screw Assy | CEA3686 | 38-13 | Owner's Manual/PEE/DUT | CRB2040 |
| 21 | Screw | BMZ50P060FTC | 38-14 | Installation Manual | CRD3958 |
| 22 | Screw(M4x6) | CBA1468 | * 38-15 | Passport | CRY1013 |
| 23 | Screw | CMZ50P060FTC | * 38-16 | Warranty Card | CRY1157 |
| * 24 | Polyethylene Sheet | CNM4338 | 38-17 | Cleaning Cloth Assy | CEA3952 |
| 25 | Spacer | CNM9149 | 38-18 | Sheet | CNM8603 |
| 26 | Accessory Assy | CEA3996 | * 38-19 | Lock Tie | CNV-754 |
| 27 | Screw Assy | CEA4396 | * 38-20 | Caution Card | CRP1322 |
| 28 | Screw | CBA1795 | 38-21 | Connector | CKX1049 |
| * 29 | Polyethylene Sheet | CNM4338 | | | |
| 30 | Screw | HMF40P080FTC | | | |

● Owner's Manual, Installation Manual

| Part No. | Language |
|------------------|--|
| CRB2029, CRB2030 | English |
| CRB2031, CRB2032 | Spanish |
| CRB2033, CRB2034 | German |
| CRB2035, CRB2036 | French |
| CRB2037, CRB2038 | Italian |
| CRB2039, CRB2040 | Dutch |
| CRD3958 | English, Spanish, German, French, Italian, Dutch |

2.3 NAVIGATION UNIT (1)



NAVIGATION UNIT (1) SECTION PARTS LIST

| Mark No. | Description | Part No. | Mark No. | Description | Part No. | |
|----------|-------------------|--------------|----------|------------------------------|--------------|---|
| 1 | Screw | BMZ20P030FZK | 57 | Holder | CND1955 | A |
| 2 | Screw(M2x3) | CBA1527 | 58 | Sheet | CNM7902 | |
| 3 | Screw | BMZ26P025FTC | 59 | Insulator | CNM8572 | |
| 4 | Screw | BMZ26P040FTC | | | | |
| 5 | Screw(M2x2.5) | CBA1615 | 60 | Insulator | CNM8573 | |
| | | | 61 | Insulator | CNM8856 | |
| 6 | Screw(M2.6x12) | CBA1620 | 62 | Heat Sink | CNR1739 | |
| 7 | Spacer | CNM9200 | 63 | Detach Grille Assy(UC model) | CXC4305 | |
| 8 | Label(EW model) | VRW1860 | | Detach Grille Assy(EW model) | CXC4304 | |
| 9 | Cord Assy | CDE7401 | | | | |
| 10 | FFC | CDE7740 | 64 | Screw | BPZ20P080FZK | |
| | | | 65 | Button(DETACH) | CAC8431 | |
| 11 | FFC | CDE7403 | 66 | Button(SRC) | CAC8432 | |
| 12 | FFC | CDE7727 | 67 | Button(EQ) | CAC8433 | B |
| 13 | Screw | CMZ50P060FTC | 68 | Button | CAC8434 | |
| 14 | Case | CNB3155 | | | | |
| 15 | Panel | CNB3048 | 69 | Button(RESET) | CAC8503 | |
| | | | 70 | Spring | CBH2680 | |
| 16 | Holder | CND2812 | 71 | Cover | CNS7759 | |
| 17 | Bracket | CND2815 | 72 | Sheet | CNM9576 | |
| 18 | Bracket | CND2816 | 73 | Connector(CN5901) | CKS3965 | |
| 19 | Bracket | CND2817 | | | | |
| 20 | Bracket | CND1947 | 74 | Connector(CN5501) | CKS4657 | |
| | | | 75 | Connector(CN5902) | CKS4658 | |
| 21 | Holder | CND1948 | 76 | Sub Grille Unit(UC model) | CXC4636 | |
| 22 | Insulator | CNM8043 | | Sub Grille Unit(EW model) | CXC4635 | |
| 23 | Insulator | CNM8571 | 77 | Knob Unit(VOLUME) | CXC4641 | C |
| 24 | Insulator | CNM8715 | | | | |
| 25 | Cover | CNM8874 | 78 | Knob Unit(SELECT) | CXC4642 | |
| | | | 79 | Button | CAC9276 | |
| 26 | IC(IC2405) | PAL007A | 80 | Screw(M2x4) | CBA1734 | |
| 27 | Spacer | CNM9246 | 81 | Screw(M2.6x2.5) | CBA1777 | |
| 28 | Panel | CNS7797 | 82 | Screw(M2x4) | CBA1778 | |
| 29 | CC Unit(UC model) | CWM9948 | | | | |
| | CC Unit(EW model) | CWM9947 | 83 | Spring | CBH2681 | |
| | | | 84 | Spring | CBH2682 | |
| 30 | Screw | BMZ26P160FTC | 85 | Spring | CBH2790 | |
| 31 | Terminal(CN100) | CKF1064 | 86 | FFC | CDE7405 | |
| 32 | Terminal(CN604) | CKF1064 | 87 | Holder | CND1840 | D |
| 33 | Terminal(CN605) | CKF1064 | | | | |
| 34 | Terminal(CN614) | CKF1064 | 88 | Holder | CND1841 | |
| | | | 89 | Insulator | CNM8510 | |
| 35 | Terminal(CN615) | CKF1064 | 90 | Arm | CNV8571 | |
| 36 | Terminal(CN2601) | CKF1064 | 91 | Arm | CNV8572 | |
| 37 | Connector(CN802) | CKM1332 | 92 | Arm | CNV8573 | |
| 38 | Connector(CN2552) | CKS1940 | | | | |
| 39 | Connector(CN971) | CKS4822 | 93 | Panel Unit | CXC2693 | |
| | | | 94 | DVD Mechanism Module(MS3) | CXK6325 | |
| 40 | Connector(CN608) | CKS3751 | 95 | Fan Motor(M100) | CXM1284 | |
| 41 | Connector(CN2701) | CKS3810 | 96 | Fan Motor(M101) | CXM1289 | |
| 42 | Connector(CN2) | CKS4052 | 97 | Screw | ISS26P050FTC | |
| 43 | ***** | | | | | E |
| 44 | Connector(CN609) | CKS4068 | 98 | Screw | PMZ20P160FTC | |
| | | | 99 | Mother Tuner Unit(UC model) | CWM9946 | |
| 45 | Connector(CN607) | CKS4132 | | Mother Tuner Unit(EW model) | CWM9945 | |
| 46 | ***** | | 100 | Connector(CN2801) | CKS4871 | |
| 47 | Connector(CN692) | CKS4473 | 101 | Connector(CN2802) | CKS4822 | |
| 48 | Connector(CN2551) | VKN1928 | | | | |
| 49 | Connector(CN731) | CKS4646 | 102 | Connector(CN2803) | CKM1365 | |
| | | | 103 | Connector(CN2804) | CKS4752 | |
| 50 | Connector(CN691) | CKS4814 | 104 | Holder | CND1956 | |
| 51 | Shield | CND2822 | 105 | Holder | CND2824 | |
| 52 | Shield | CND2823 | 106 | Sheet | CNM9536 | |
| 53 | Shield | CND1951 | | | | F |
| 54 | Shield | CND1952 | | | | |
| | | | | | | |
| 55 | Holder | CND1953 | | | | |
| 56 | Holder | CND1954 | | | | |

2.4 NAVIGATION UNIT (2)

A

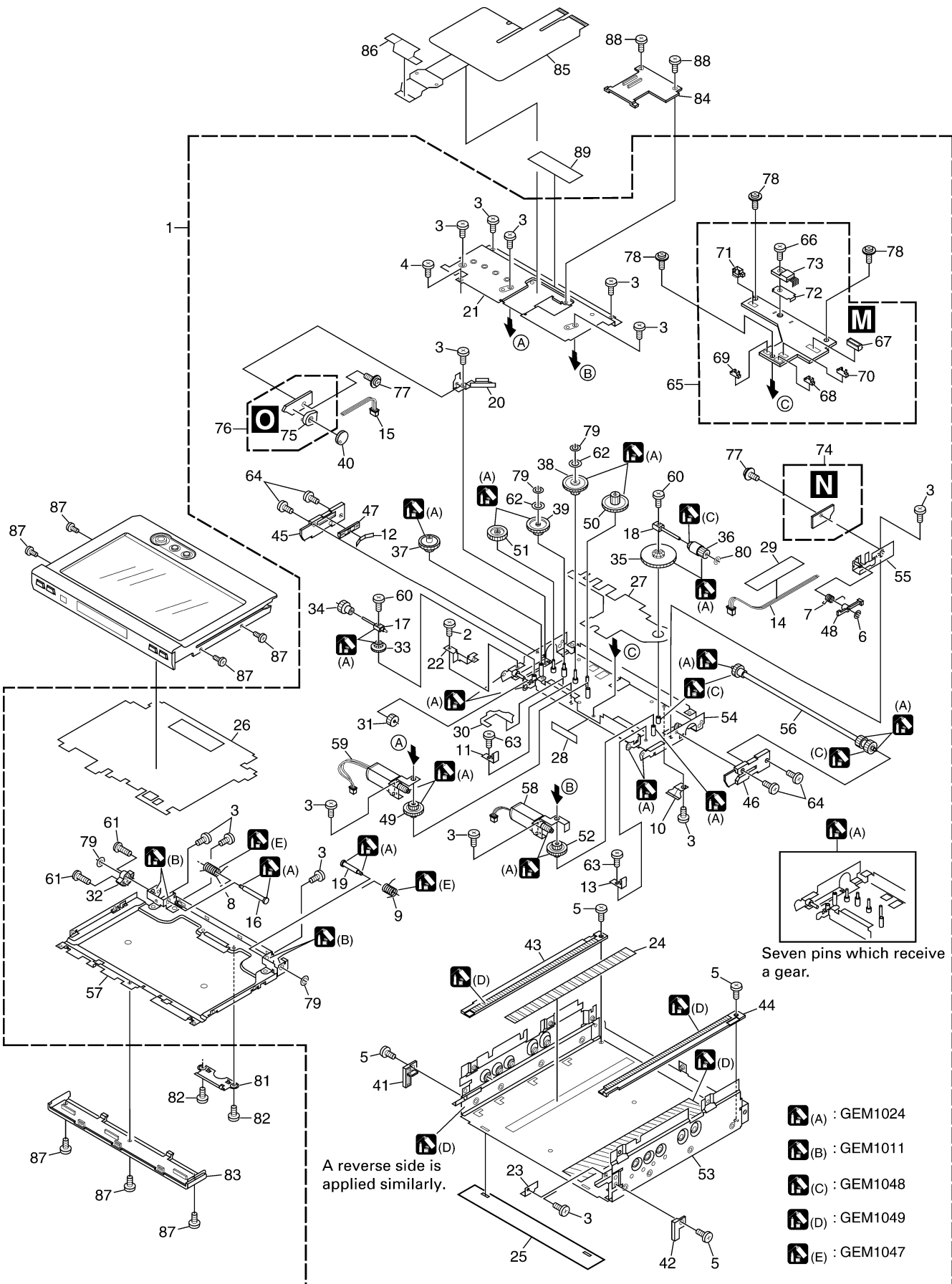
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NAVIGATION UNIT (2) SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | |
|-----------------|--------------------|-----------------|-----------------|-----------------------------|-----------------|---|
| 1 | Drive Unit | CXB9508 | 51 | Gear | CNV7524 | A |
| 2 | Screw(M2x3) | CBA1082 | 52 | Gear | CNV7529 | |
| 3 | Screw(M2x2.5) | CBA1250 | 53 | Chassis Unit | CXB9509 | |
| 4 | Screw(M2x4) | CBA1277 | 54 | Frame Unit | CXB9511 | |
| 5 | Screw(M2x1.5) | CBA1615 | 55 | Holder Unit | CXB9512 | |
| 6 | Washer | CBF1038 | 56 | Shaft Unit | CXB9513 | |
| 7 | Spring | CBH2645 | 57 | Holder Unit | CXB9514 | |
| 8 | Spring | CBH2646 | 58 | Motor Unit(M3001)(Position) | CXB9515 | |
| 9 | Spring | CBH2647 | 59 | Motor Unit(M3002)(Angle) | CXB9516 | |
| 10 | Spring | CBL1585 | 60 | Screw | CZB3082 | B |
| 11 | Spring | CBL1586 | 61 | Screw | CZB3083 | |
| 12 | Spring | CBL1587 | 62 | Washer | CZB3084 | |
| 13 | Spring | CBL1642 | 63 | Screw(M2x1.8) | CZB3085 | |
| 14 | Cord Assy | CDE7047 | 64 | Screw(M2x4) | CZB3088 | |
| 15 | Cord Assy | CDE7213 | 65 | Main Unit | CZW3087 | |
| 16 | Shaft | CLA4270 | 66 | Screw | BMZ26P050FTC | |
| 17 | Shaft | CLA4305 | 67 | Connector(CN3801) | CKS4068 | |
| 18 | Shaft | CLA4306 | 68 | Connector(CN3802) | CKS4732 | |
| 19 | Shaft | CLA4309 | 69 | Connector(CN3803) | CKS4732 | C |
| 20 | Bracket | CND1221 | 70 | Connector(CN3807) | CKS4733 | |
| 21 | Case | CND1229 | 71 | Connector(CN3809) | CKS4733 | |
| 22 | Holder | CND1318 | 72 | Heat Sink | CND1228 | |
| 23 | Holder | CND1449 | 73 | IC(IC3801) | BA00AST | |
| 24 | Sheet | CNM8522 | 74 | SW Unit | CZW3088 | |
| 25 | Sheet | CNM8037 | 75 | Volume(VR3841) | CCW1025 | |
| 26 | Insulator | CNM8048 | 76 | Volume Unit | CZW3089 | |
| 27 | Insulator | CNM8158 | 77 | Screw | IMS20P020FTC | |
| 28 | Sheet | CNM8159 | 78 | Screw | IMS20P030FZK | D |
| 29 | Tape | CNM8160 | 79 | Washer | YE15S | |
| 30 | Insulator | CNM8294 | 80 | Washer | CZB3089 | |
| 31 | Gear | CNR1664 | 81 | Holder | CND2813 | |
| 32 | Gear | CNR1665 | 82 | Screw | JFZ20P022FNI | |
| 33 | Gear | CNR1677 | 83 | Cover | CNS7760 | |
| 34 | Gear | CNR1678 | 84 | Holder | CNV8569 | |
| 35 | Gear | CNR1679 | 85 | Flexible PCB | CNP7621 | |
| 36 | Gear | CNR1680 | 86 | Shield | CNM8969 | |
| 37 | Gear | CNR1688 | 87 | Screw(M2x2) | CBA1753 | E |
| 38 | Gear | CNR1708 | 88 | Screw(M2x3) | CBA1797 | |
| 39 | Gear | CNR1709 | 89 | Sheet | CNM9201 | |
| 40 | Gear | CNV7383 | | | | |
| 41 | Holder | CNV7384 | | | | |
| 42 | Holder | CNV7385 | | | | |
| 43 | Rack | CNV7386 | | | | |
| 44 | Rack | CNV7387 | | | | |
| 45 | Slider | CNV7388 | | | | |
| 46 | Slider | CNV7389 | | | | |
| 47 | Holder | CNV7390 | | | | F |
| 48 | Arm | CNV7391 | | | | |
| 49 | Gear | CNV7522 | | | | |
| 50 | Gear | CNV7523 | | | | |

2.5 NAVIGATION UNIT (3)

A

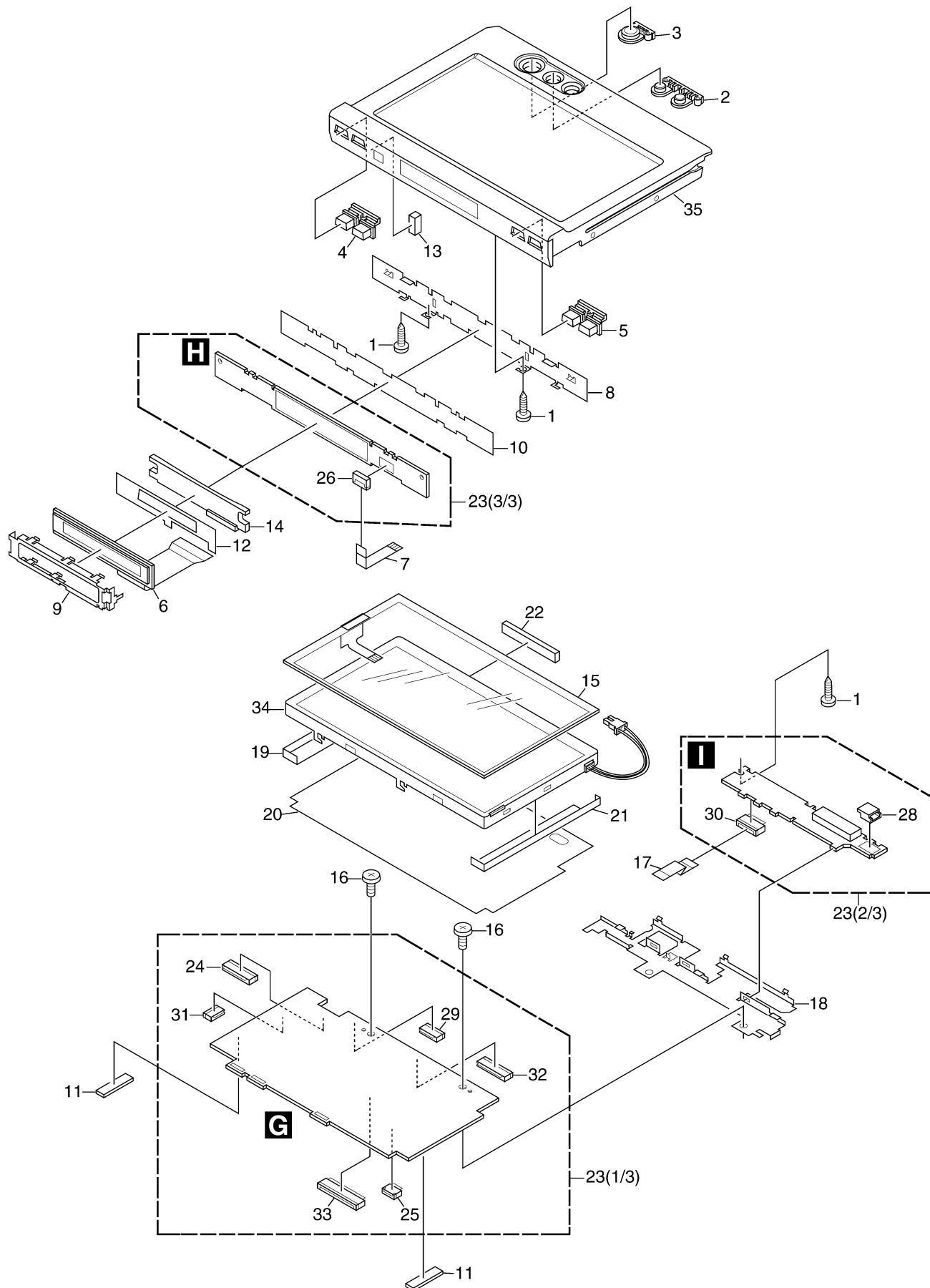
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NAVIGATION UNIT (3) SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|-----------------------------------|-----------------|
| 1 | Screw | BPZ20P060FTC |
| 2 | Button(NAVI/AV) | CAC8427 |
| 3 | Button(NAVI MENU) | CAC8428 |
| 4 | Button(OPEN/CLOSE) | CAC8430 |
| 5 | Button(DISP,PGM)(UC model) | CAC8504 |
| | Button(DISP,TA)(EW model) | CAC8429 |
| 6 | LCD | CAW1870 |
| 7 | FFC | CDE7488 |
| 8 | Holder | CND2010 |
| 9 | Holder | CND2825 |
| 10 | Insulator | CNM8616 |
| 11 | Spacer | CNM8707 |
| 12 | Sheet | CNM8858 |
| 13 | Cushion | CNM9148 |
| 14 | Lighting Conductor | CNV8570 |
| 15 | Touch Panel | CSX1083 |
| 16 | Screw(M2x2.5) | CBA1615 |
| 17 | FFC | CDE7196 |
| 18 | Holder | CND2418 |
| 19 | Sheet | CNM7784 |
| 20 | Insulator | CNM8031 |
| 21 | Sheet | CNM8265 |
| 22 | Conductor | CNM8857 |
| 23 | Monitor Unit(UC model) | CWM9950 |
| | Monitor Unit(EW model) | CWM9949 |
| 24 | Connector(CN4801) | CKS3991 |
| 25 | Connector(CN4005) | CKS4054 |
| 26 | Connector(CN4301) | CKS4054 |
| 27 | ••••• | |
| 28 | Connector(CN5002) | CKS4428 |
| 29 | Connector(CN4003) | CKS4595 |
| 30 | Connector(CN5001) | CKS4595 |
| 31 | Connector(CN4681) | CKS4675 |
| 32 | Connector(CN4002) | CKS4793 |
| 33 | Connector(CN4701) | CKS4818 |
| 34 | LCD Panel | CWX3056 |
| 35 | Display Sub Grille Unit(UC model) | CXC4634 |
| | Display Sub Grille Unit(EW model) | CXC4633 |

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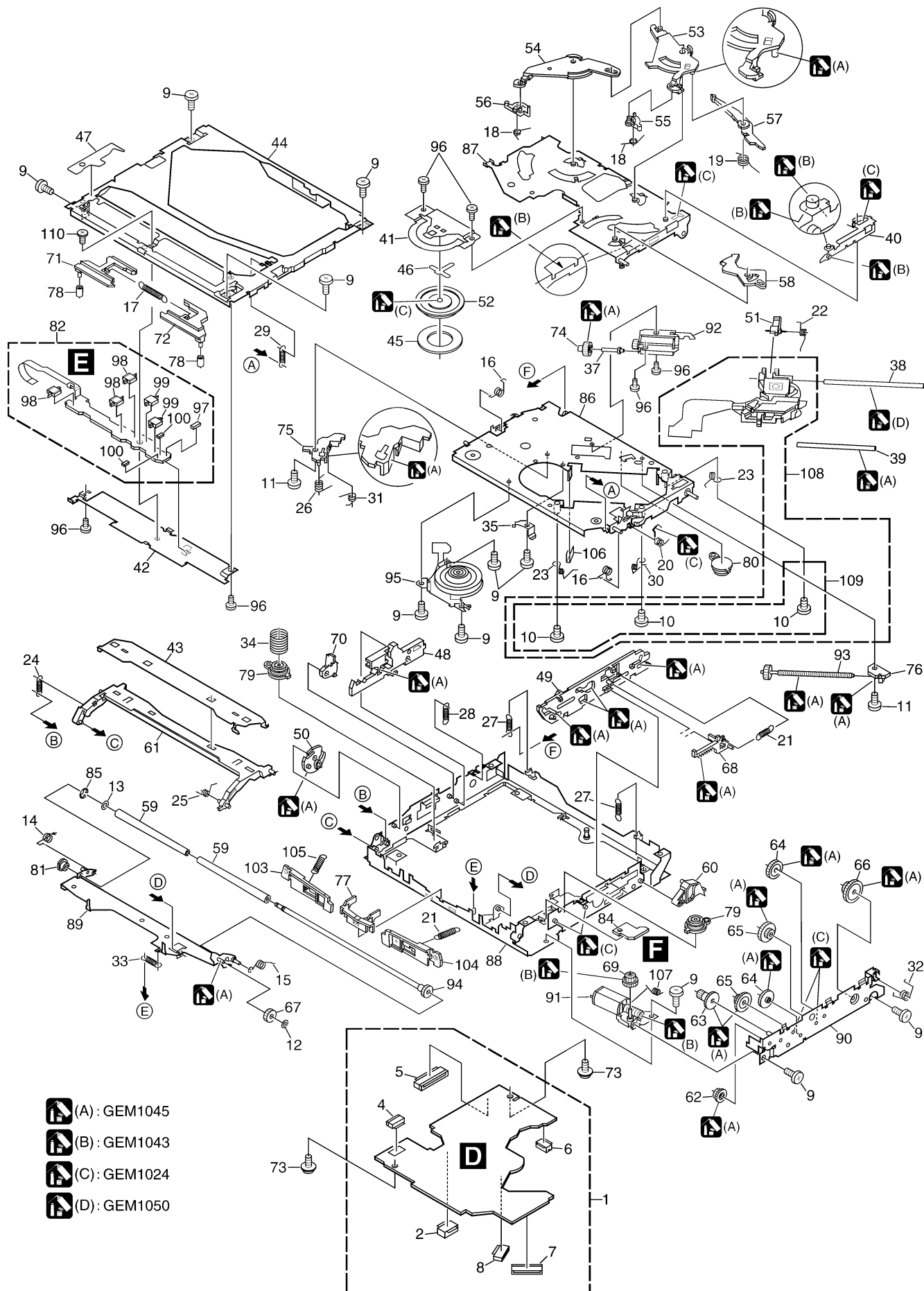
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HIDEAWAY UNIT AND CORD ASSY SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|-----------------------------|-----------------|-----------------|-----------------------------|-----------------|
| 1 | Screw | BMZ26P030FTC | 47 | Resistor | RS1/2PMF102J |
| 2 | Screw | BMZ26P060FZK | 48 | Cord Assy | CDE7399 |
| 3 | Screw | BSZ26P060FTC | 49 | Cap | CNV6727 |
| 4 | Screw(M2.6x12) | CBA1620 | 50 | Cord Assy(UC model) | CDE7487 |
| 5 | Chassis | CNA2697 | 51 | Fuse(10A) | CEK1136 |
| 6 | Case(UC model) | CNB3154 | 52 | Cord Assy(EW model) | CDE7486 |
| | Case(EW model) | CNB3153 | 53 | Cap(EW model) | CKX-003 |
| 7 | Holder | CND2821 | 54 | Cord(EW model) | CDH1332 |
| 8 | Insulator | CNM8565 | 55 | Shield(EW model) | CND2814 |
| 9 | Gasket | CNM8954 | 56 | Shield(EW model) | CND1964 |
| 10 | Mother Tuner Unit(UC model) | CWM9946 | 57 | Tuner Unit(Y1801)(EW model) | CWE1674 |
| | Mother Tuner Unit(EW model) | CWM9945 | 58 | Transistor(Q1907) | 2SB1629 |
| 11 | Screw | BMZ26P060FTC | 59 | Transistor(Q1908,1909) | 2SD2396 |
| 12 | Cord Assy | CDE7397 | | | |
| 13 | FM/AM Tuner Unit(UC model) | CWE1651 | | | |
| | FM/AM Tuner Unit(EW model) | CWE1650 | | | |
| 14 | Connector(CN101,102) | CKS4653 | | | |
| 15 | Holder | CND1432 | | | |
| 16 | Pin Jack(CN1351) | CKB1065 | | | |
| 17 | Terminal(CN1401) | CKF1064 | | | |
| 18 | Terminal(CN1403) | CKF1064 | | | |
| 19 | Terminal(CN1903) | CKF1064 | | | |
| 20 | Terminal(CN1904) | CKF1064 | | | |
| 21 | Pin Jack(CN1301) | CKB1071 | | | |
| 22 | Pin Jack(CN1701) | CKB1071 | | | |
| 23 | Connector(CN1950) | CKS4822 | | | |
| 24 | Connector(CN1101) | CKS3414 | | | |
| 25 | Connector(CN551) | CKS5205 | | | |
| 26 | Connector(CN1841) | CKS5205 | | | |
| 27 | Connector(CN552) | CKS5204 | | | |
| 28 | | | | | |
| 29 | Connector(CN1201) | CKS4590 | | | |
| 30 | Connector(CN1001) | CKS4646 | | | |
| 31 | Antenna Jack(CN1402) | CKX1056 | | | |
| 32 | Holder | CND2818 | | | |
| 33 | Holder | CND1901 | | | |
| 34 | Holder | CND1902 | | | |
| 35 | Holder | CND2819 | | | |
| 36 | Holder | CND2820 | | | |
| 37 | GPS Unit(UC model) | CWX2960 | | | |
| | GPS Unit(EW model) | CWX2929 | | | |
| 38 | Connector(CN461) | CKS4280 | | | |
| 39 | Connector(CN504) | CKS4432 | | | |
| 40 | Shield | CNC9192 | | | |
| 41 | Holder | CNC9252 | | | |
| 42 | Shield | CND1161 | | | |
| 43 | Fan Motor(M102) | CXM1293 | | | |
| 44 | Screw | ISS26P060FTC | | | |
| 45 | Cord | CDE6825 | | | |
| 46 | Cap | CNS1472 | | | |

2.7 DVD MECHANISM MODULE

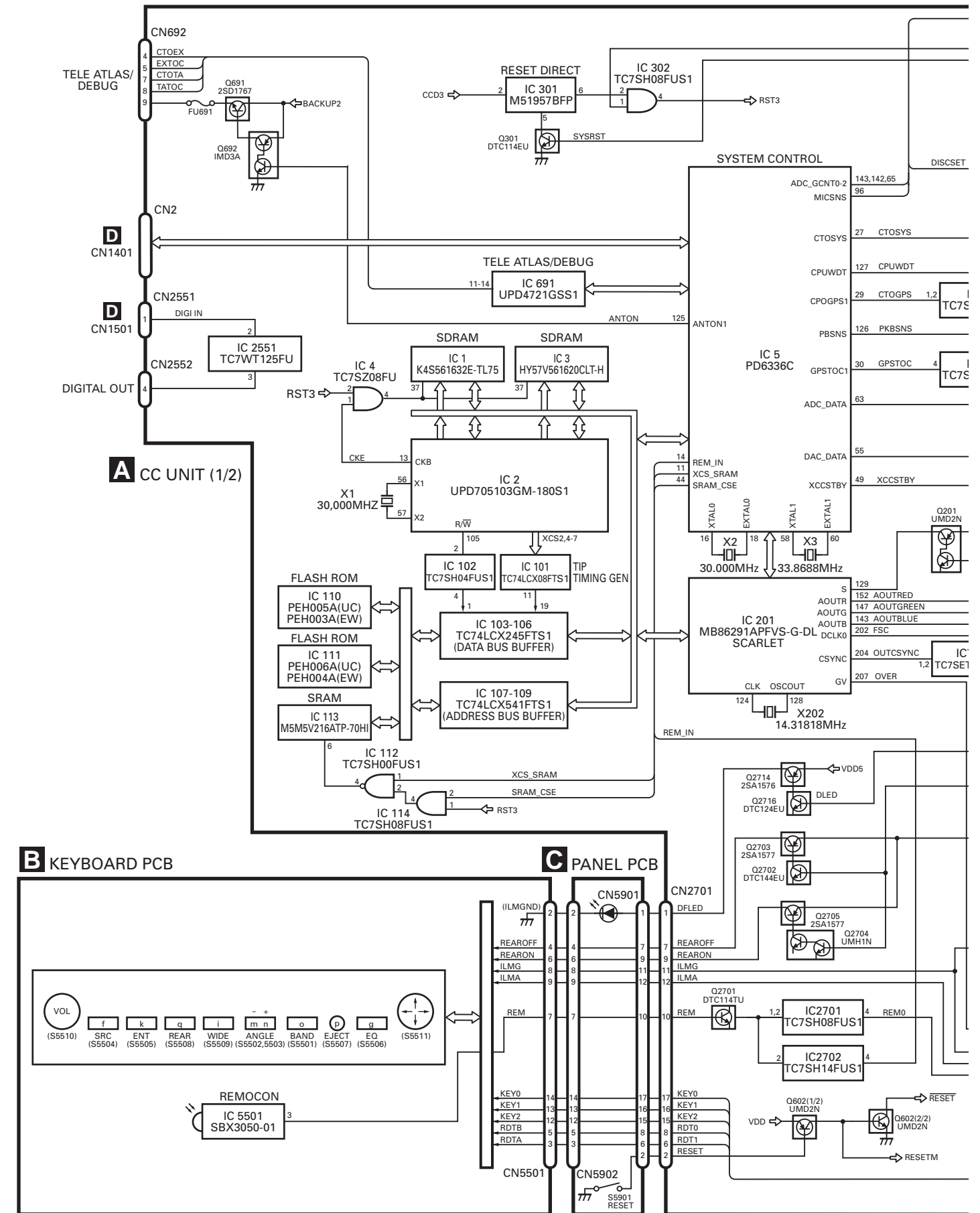


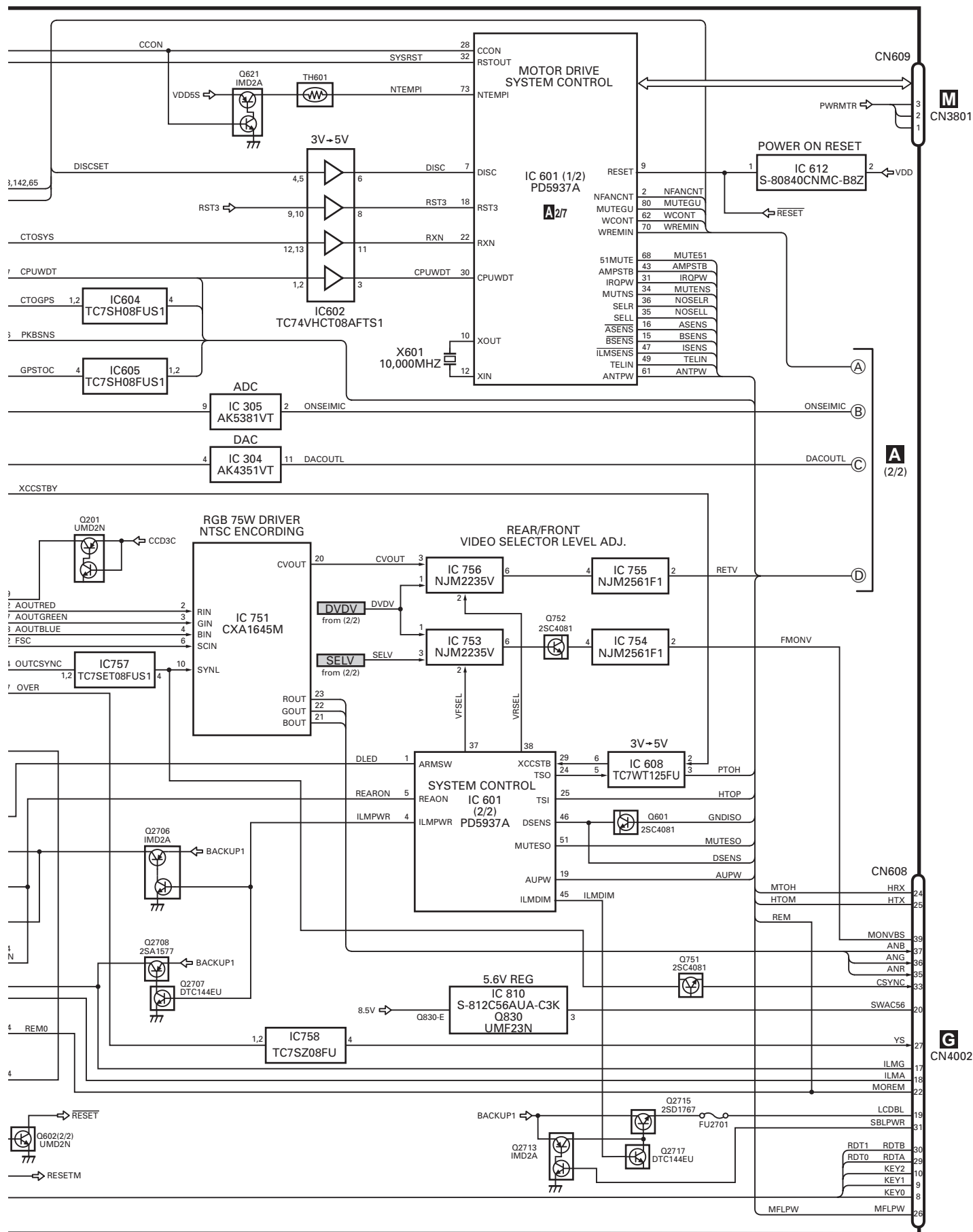
DVD MECHANISM MODULE SECTION PARTS LIST

| Mark No. | Description | Part No. | Mark No. | Description | Part No. | |
|----------|--------------------|--------------|----------|--------------------------------|--------------|---|
| 1 | DVD Core Unit(MS3) | CWX2941 | * 57 | Arm | CNV7163 | |
| 2 | Connector(CN1501) | CKS4282 | 58 | Arm | CNV7164 | A |
| 3 | Connector(CN1401) | CKS4052 | 59 | Roller | CNV7165 | |
| 4 | Connector(CN1202) | CKS4624 | 60 | Arm | CNV7166 | |
| 5 | Connector(CN1611) | CKS4052 | | | | |
| | | | 61 | Guide | CNV8093 | |
| 6 | Connector(CN1603) | CKS4374 | 62 | Gear | CNV7169 | |
| 7 | Connector(CN1101) | CKS4625 | 63 | Gear | CNV7170 | |
| 8 | Connector(CN1201) | CKS4067 | 64 | Gear | CNV7171 | |
| 9 | Screw | BMZ20P020FTC | 65 | Gear(Black) | CNV7172 | |
| 10 | Screw(M2 x 3.5) | CBA1571 | | | | |
| | | | 66 | Gear | CNV7173 | |
| 11 | Screw(M2 x 2.5) | CBA1623 | 67 | Gear | CNV7174 | |
| 12 | Washer | CBF1038 | 68 | Rack | CNV7175 | B |
| 13 | Washer | CBF1064 | 69 | Gear | CNV7176 | |
| 14 | Spring | CBH2586 | 70 | Arm | CNV8077 | |
| 15 | Spring | CBH2587 | | | | |
| | | | 71 | Lever | CNV7178 | |
| 16 | Spring | CBH2588 | 72 | Lever | CNV7179 | |
| 17 | Spring | CBH2589 | 73 | Screw | IMS20P030FTC | |
| 18 | Spring | CBH2590 | 74 | Gear | CNV7181 | |
| 19 | Spring | CBH2591 | 75 | Holder | CNV7183 | |
| 20 | Spring | CBH2592 | | | | |
| | | | 76 | Holder | CNV7184 | |
| 21 | Spring | CBH2593 | 77 | Guide | CNV7745 | |
| 22 | Spring | CBH2594 | 78 | Roller | CNV7344 | |
| 23 | Spring | CBH2595 | 79 | Damper | CNV7470 | C |
| 24 | Spring | CBH2596 | 80 | Damper | CNV7471 | |
| 25 | Spring | CBH2597 | | | | |
| | | | 81 | Collar | CNV7645 | |
| 26 | Spring | CBH2598 | 82 | Compound Unit(A) | CWX3154 | |
| 27 | Spring | CBH2599 | 83 | ***** | | |
| 28 | Spring | CBH2600 | 84 | Compound Unit(B) | CWX3156 | |
| 29 | Spring | CBH2601 | 85 | Washer | YE20FTC | |
| 30 | Spring | CBH2602 | | | | |
| | | | 86 | Chassis Unit | CXC3629 | |
| 31 | Spring | CBH2603 | 87 | Arm Unit | CXB8681 | |
| 32 | Spring | CBH2604 | 88 | Frame Unit | CXB8683 | |
| 33 | Spring | CBH2605 | 89 | Arm Unit | CXC4701 | D |
| 34 | Spring | CBH2711 | 90 | Bracket Unit | CXB8685 | |
| 35 | Spring | CBL1564 | | | | |
| | | | 91 | Motor Unit(LOADING)(M1) | CXC4659 | |
| 36 | ***** | | 92 | Motor Unit(CARRIAGE)(M2) | CXC4314 | |
| 37 | Shaft | CLA3881 | 93 | Screw Unit | CXB8689 | |
| 38 | Shaft | CLA4206 | 94 | Roller Unit | CXB8690 | |
| 39 | Shaft | CLA4207 | 95 | Motor(SPINDLE)(M3) | CXM1308 | |
| 40 | Lever | CNC9933 | | | | |
| | | | 96 | Screw | JFZ20P018FTC | |
| 41 | Holder | CNC9939 | 97 | Photo-transistor(Q1299) | CPT231SCTD | |
| 42 | Holder | CND2251 | 98 | Spring Switch(S1201,1202,1203) | CSN1069 | |
| 43 | Holder | CNC9941 | 99 | Spring Switch(S1204,1205) | CSN1070 | |
| 44 | Frame | CND2250 | 100 | Resistor(R1298,1299) | RS1/16S0R0J | E |
| 45 | Sheet | CNM6883 | | | | |
| | | | 101 | ***** | | |
| 46 | Sheet | CNM8283 | 102 | ***** | | |
| 47 | Sheet | CNM8643 | 103 | Arm | CNV7742 | |
| 48 | Lever | CNV8076 | 104 | Arm | CNV7743 | |
| 49 | Lever | CNV7155 | 105 | Spring | CBH2710 | |
| 50 | Cam | CNV7156 | | | | |
| | | | 106 | Spring | CBL1643 | |
| 51 | Rack | CNV7157 | 107 | Spring | CBH2712 | |
| 52 | Clamper | CNV7158 | 108 | Pickup Unit(Service)(Screw) | GXX1234 | |
| 53 | Arm | CNV7159 | 109 | Screw Assy | CXX1750 | |
| 54 | Arm | CNV7160 | 110 | Screw(M1.4 x 1.4) | CBA1787 | F |
| 55 | Arm | CNV7161 | | | | |
| | | | | | | |
| 56 | Arm | CNV7162 | | | | |

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

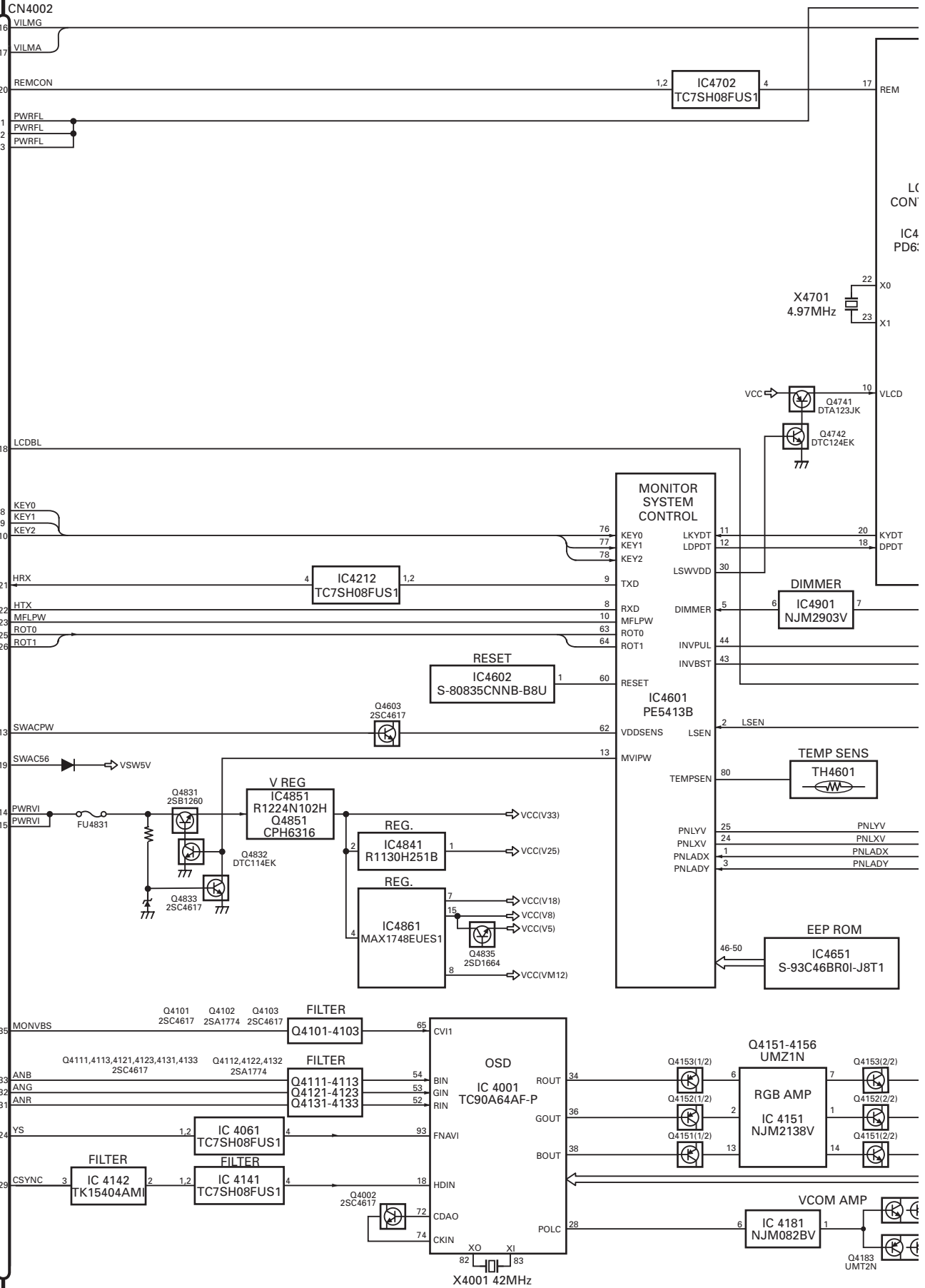




AVIC-N2/XU/UC



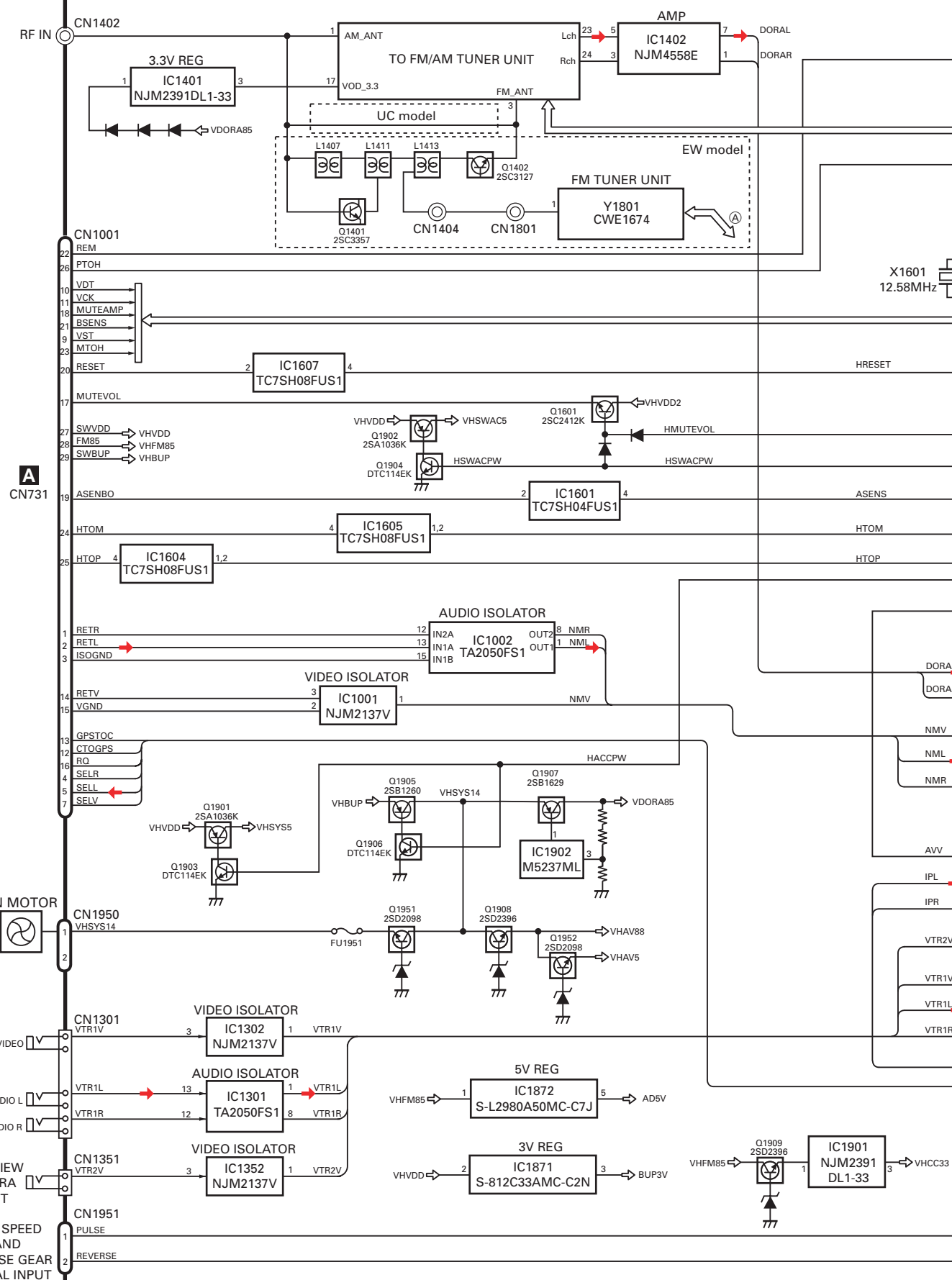
G MONITOR PCB

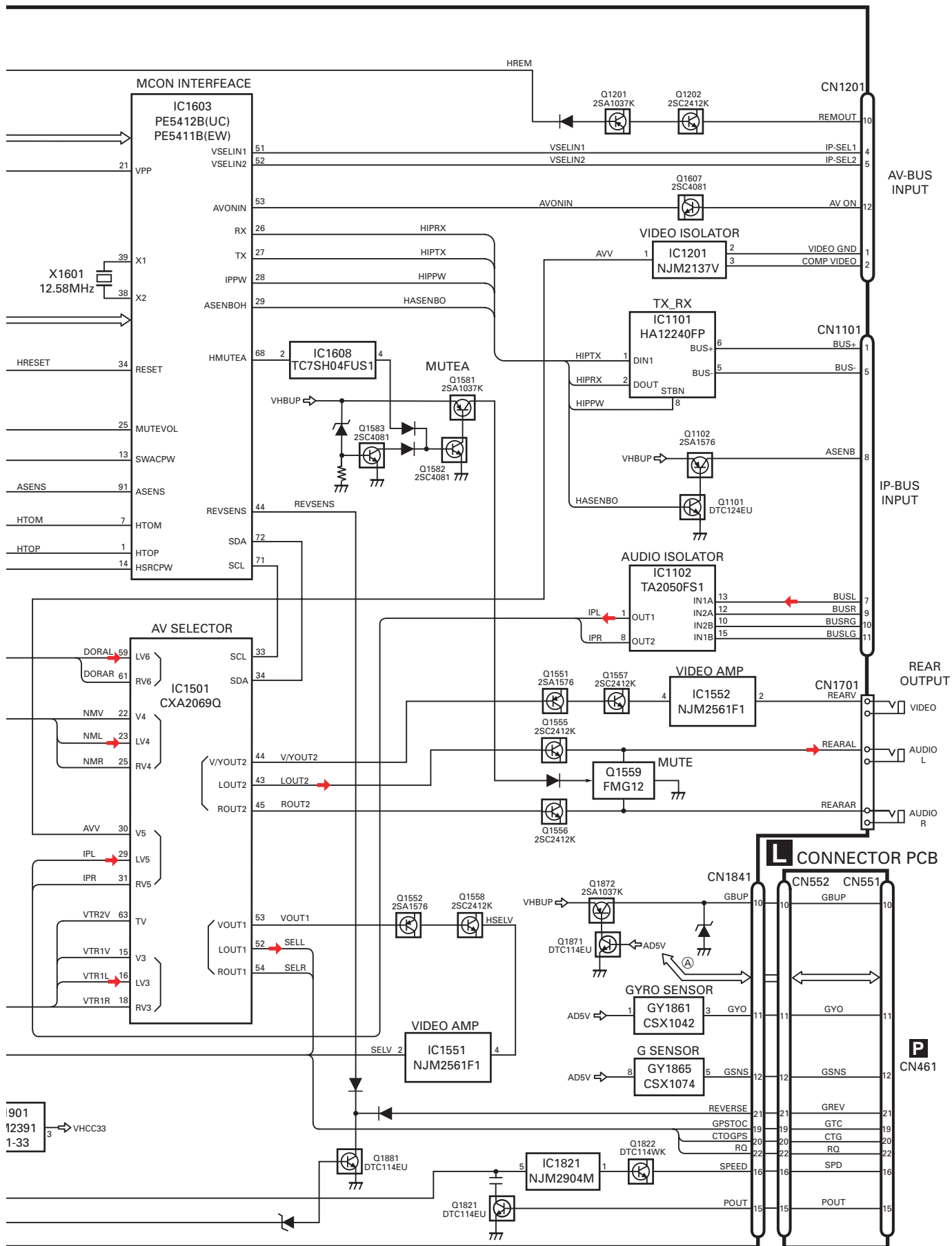


F

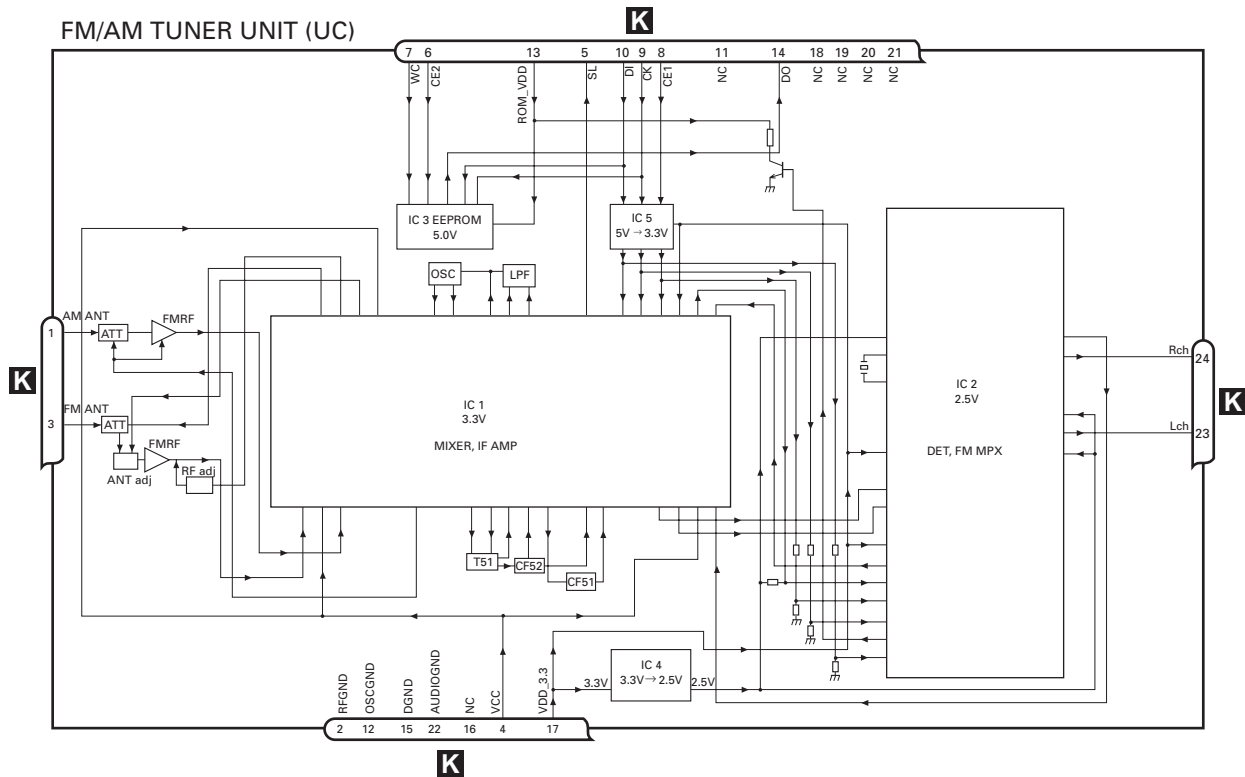


K MOTHER PCB

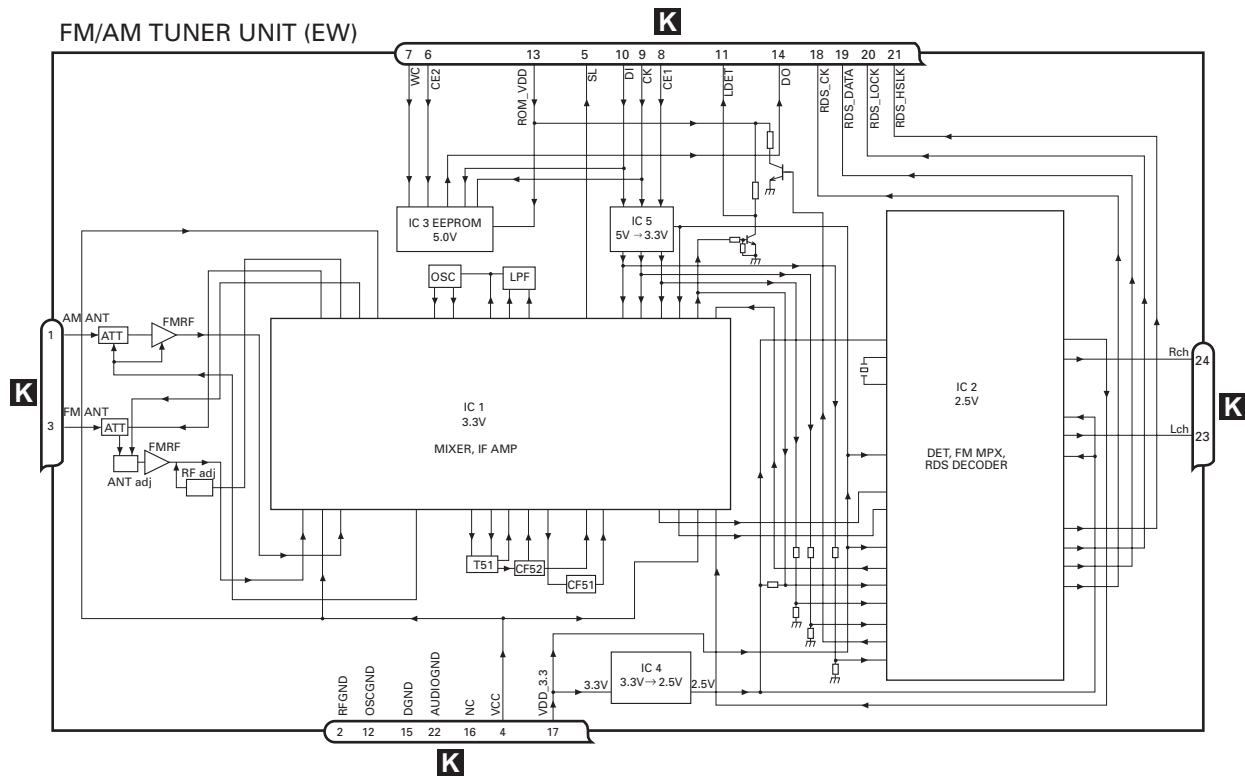




FM/AM TUNER UNIT (UC)

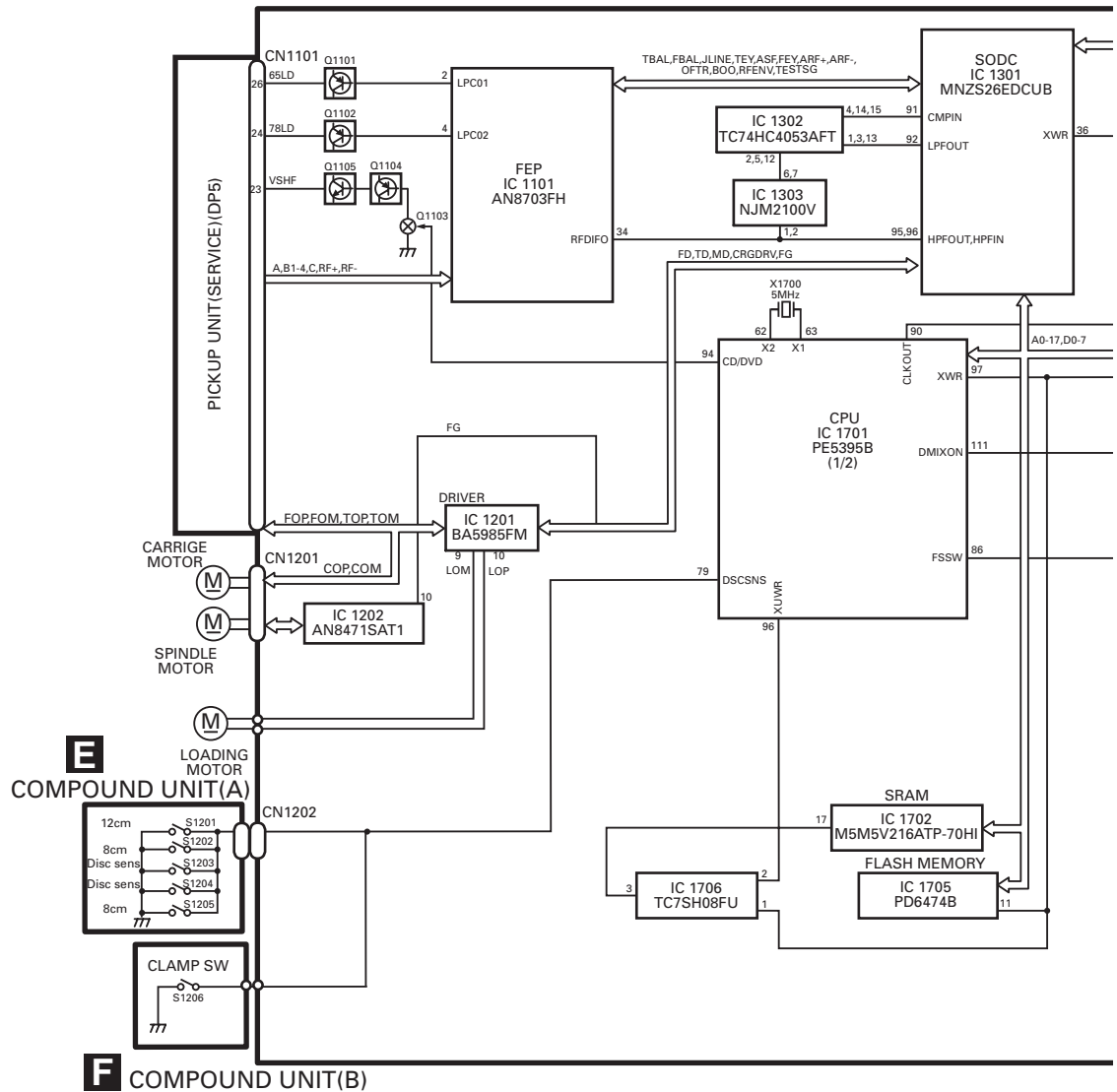


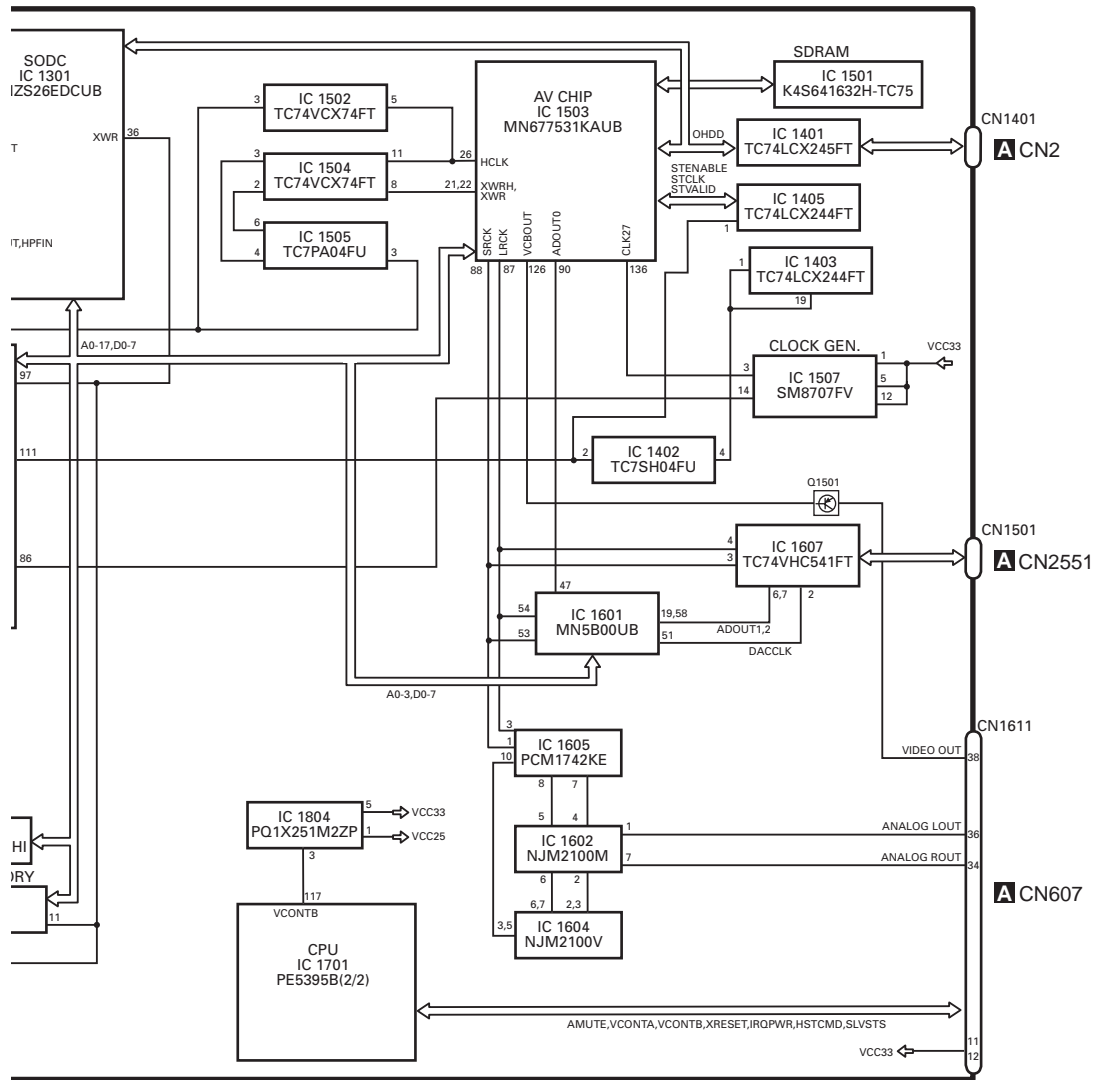
FM/AM TUNER UNIT (EW)



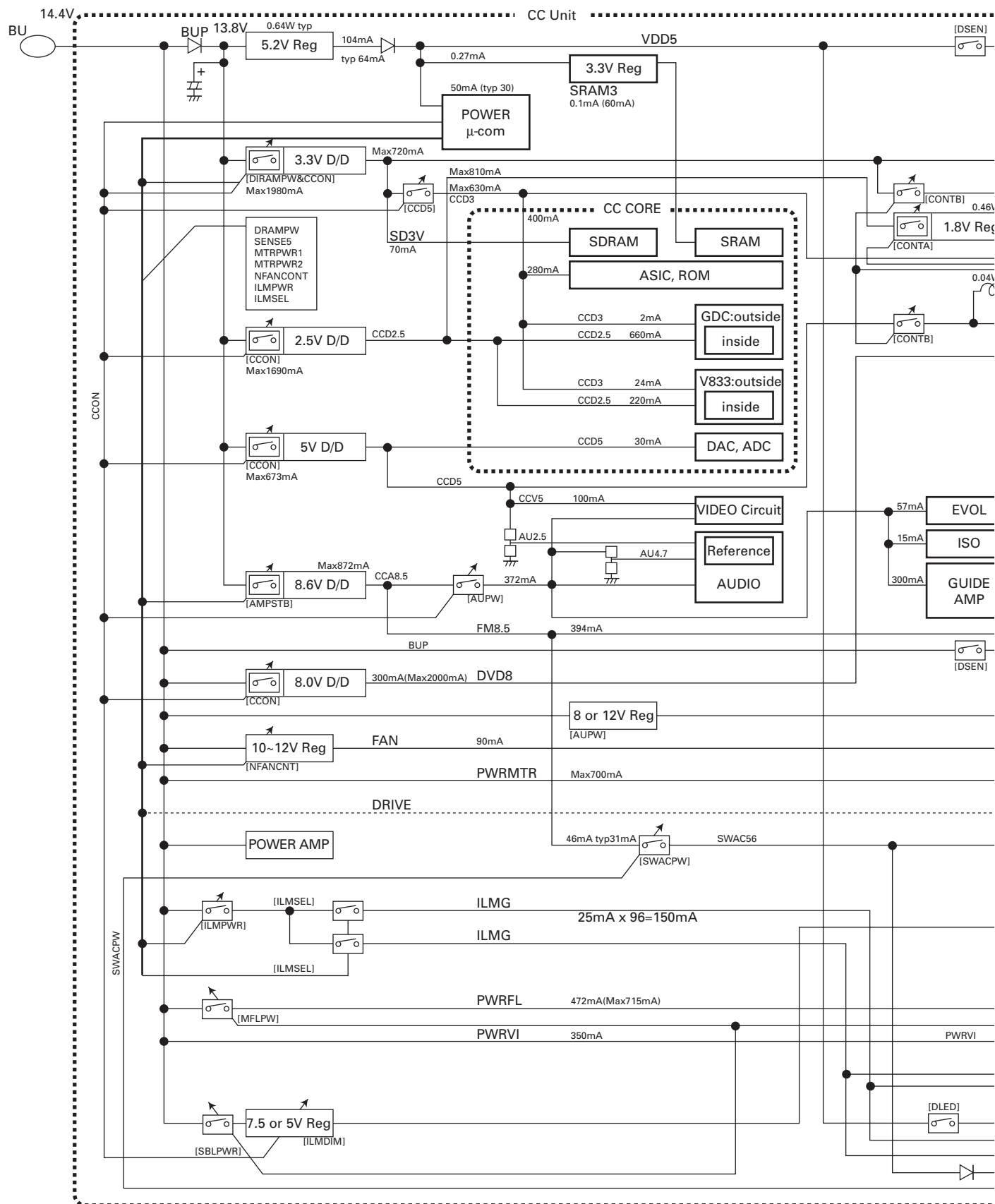


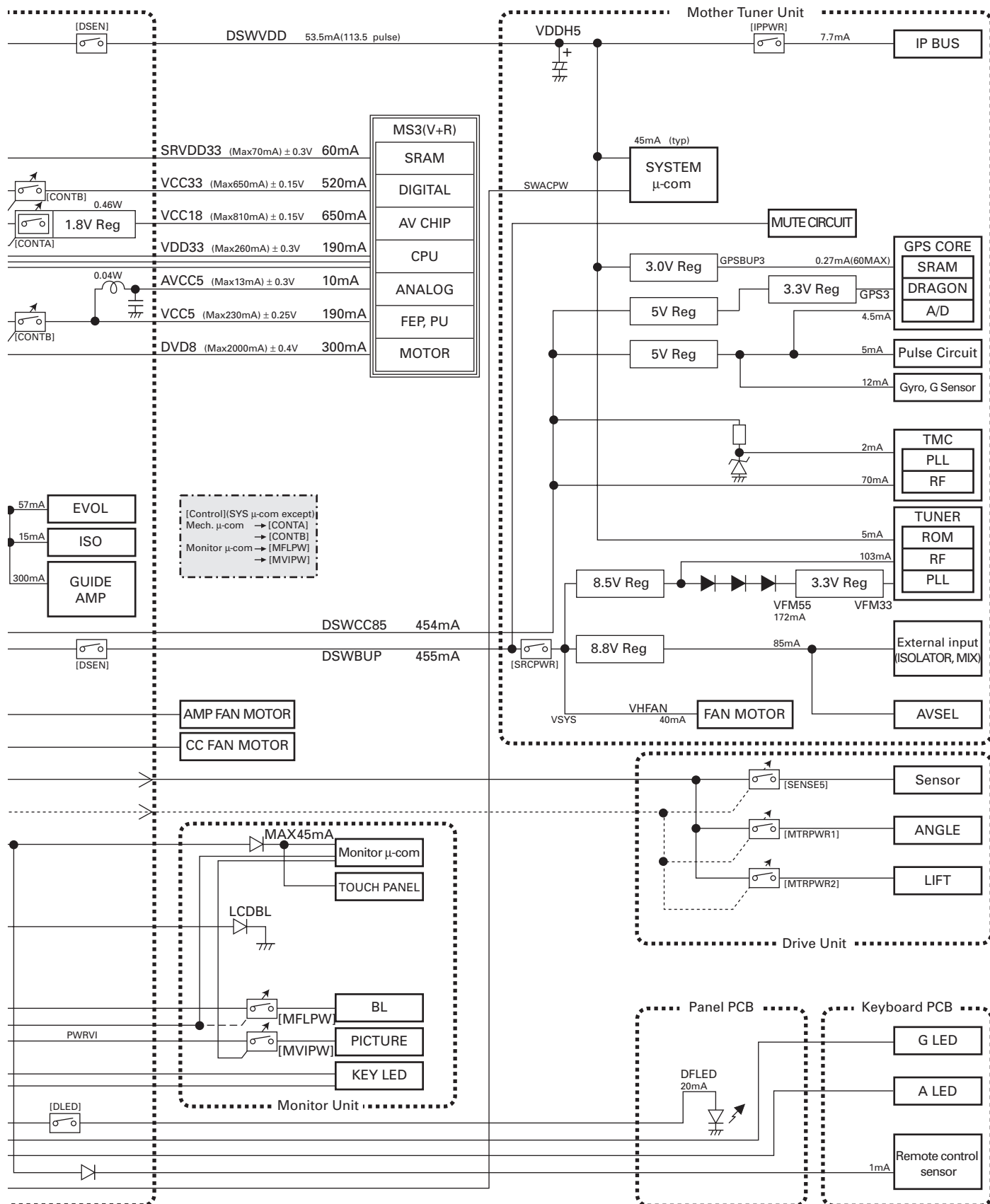
D DVD CORE UNIT (MS3)





POWER SUPPLY SYSTEM FIGURE






3.2 OVERALL CONNECTION DIAGRAM

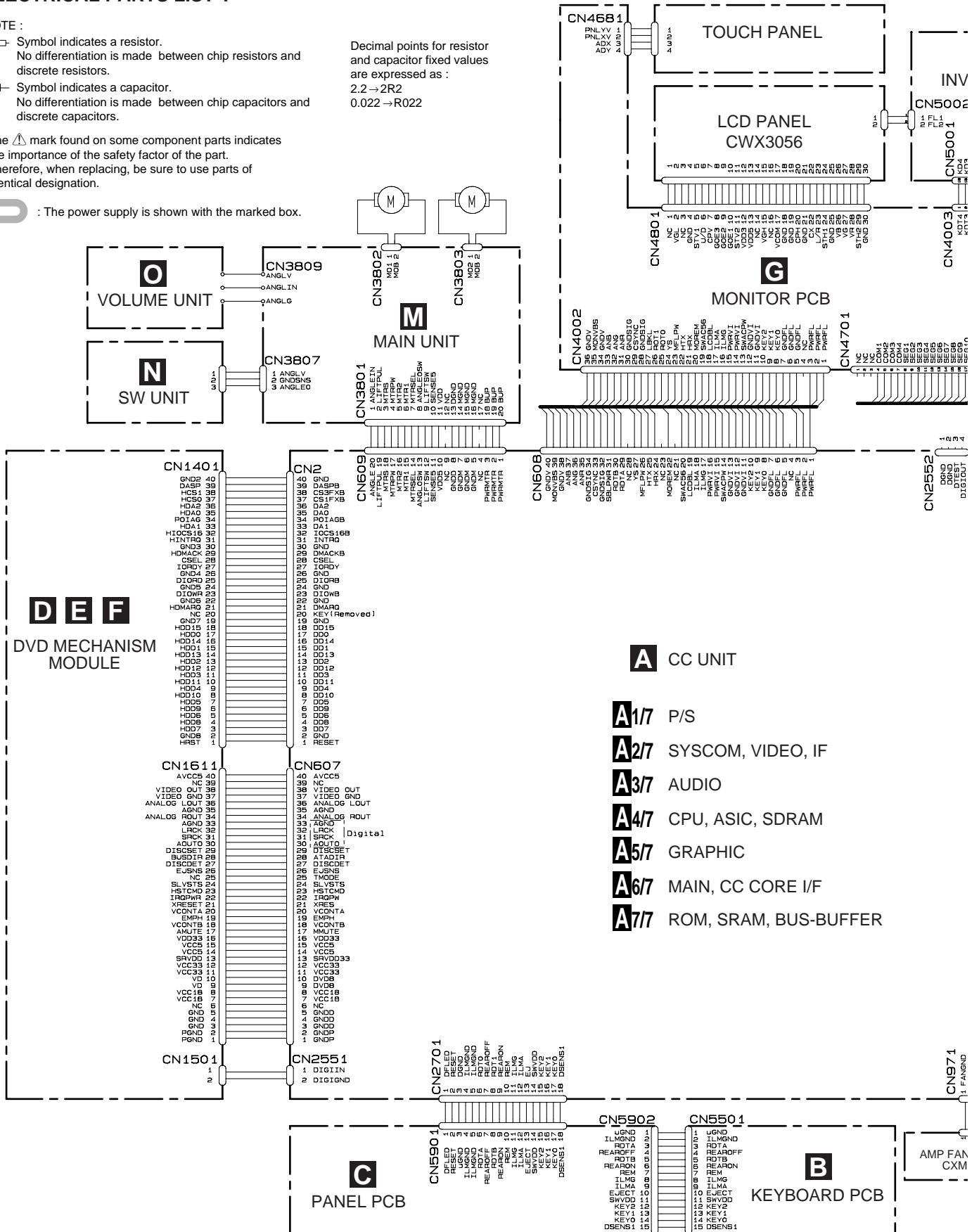
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

NOTE :

- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- ⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

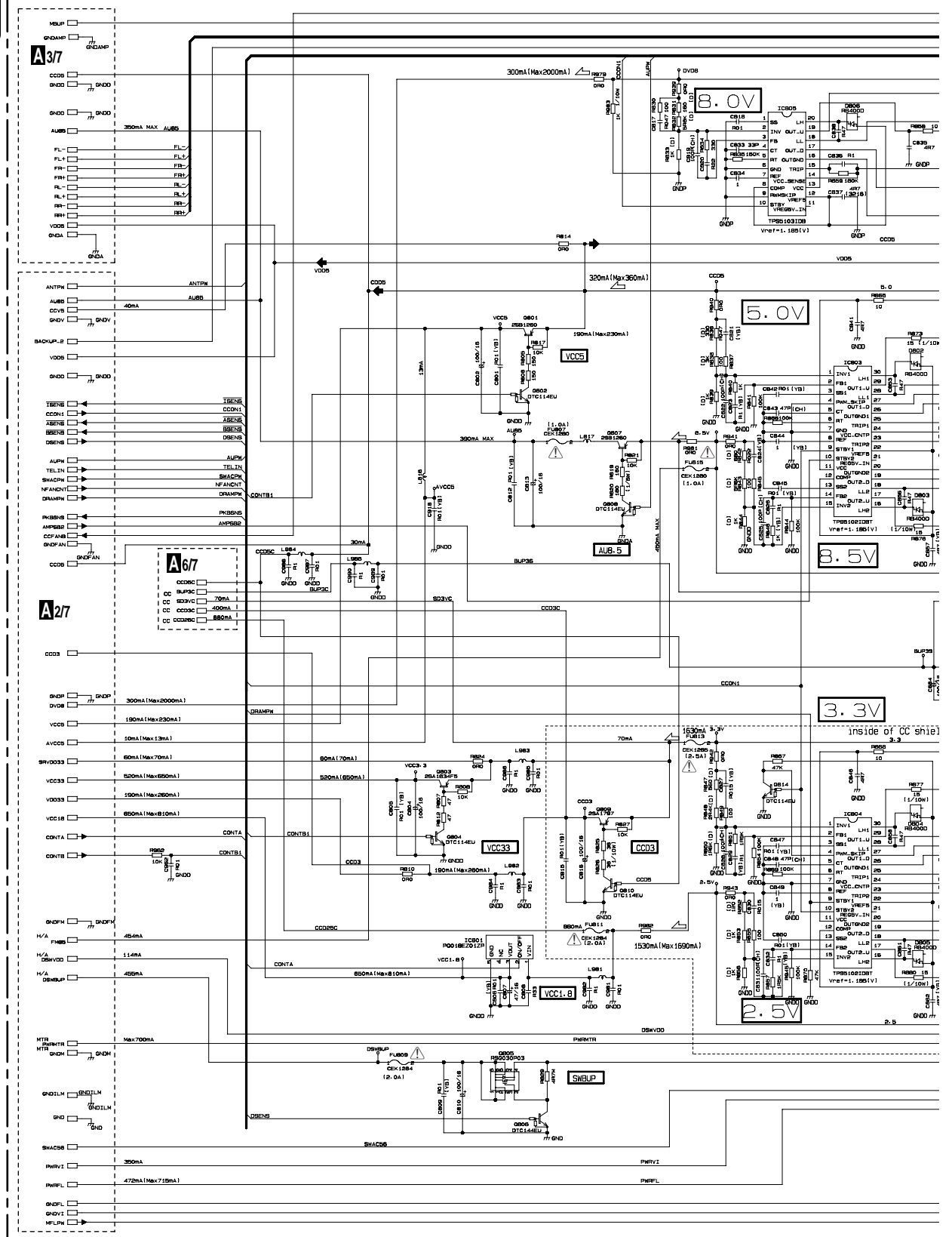
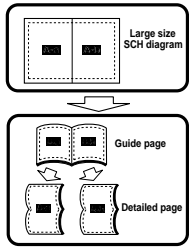
The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

: The power supply is shown with the marked box.



3.3 CC UNIT (P/S)(GUIDE PAGE)

A-a 1/7



A1/7

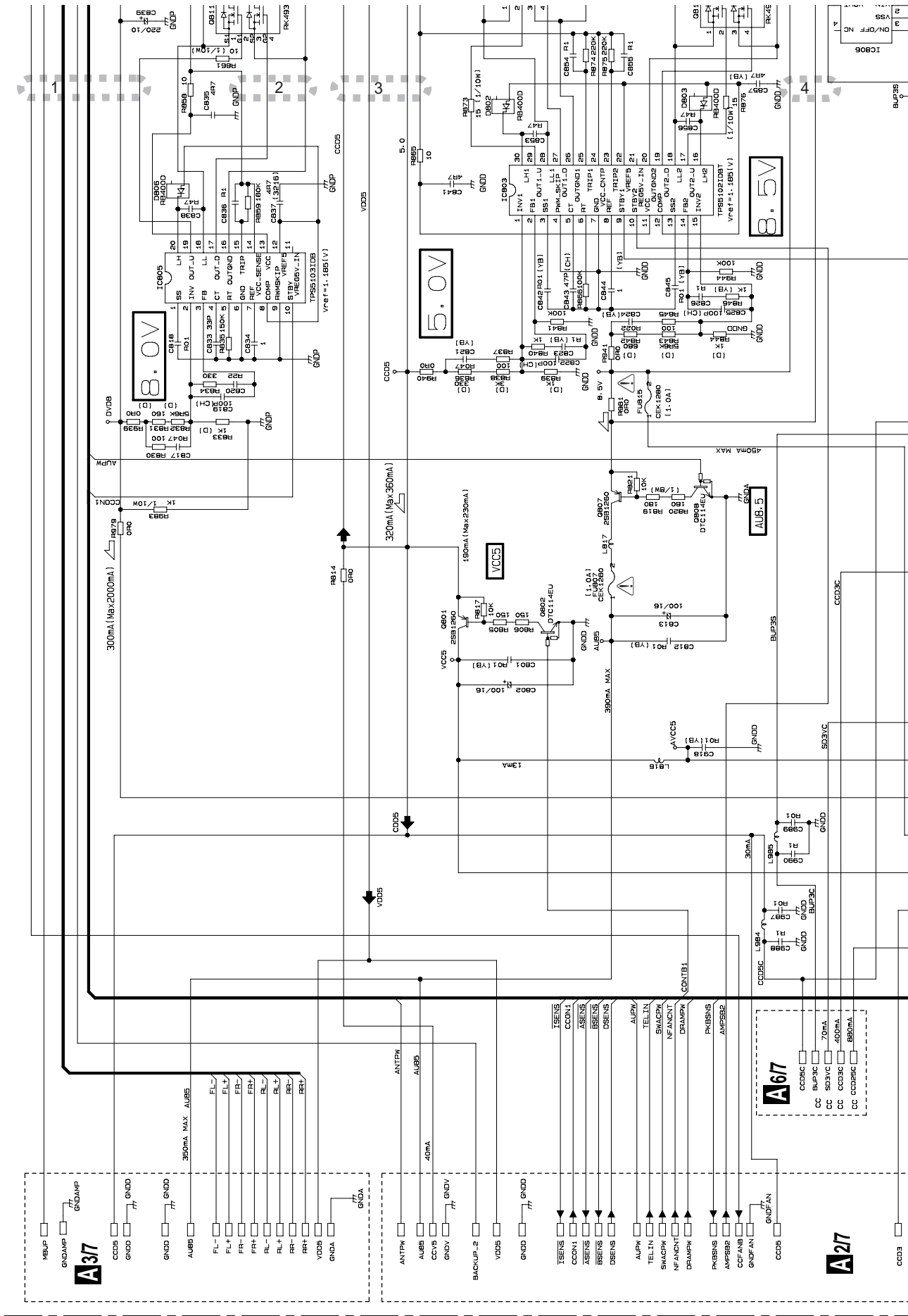


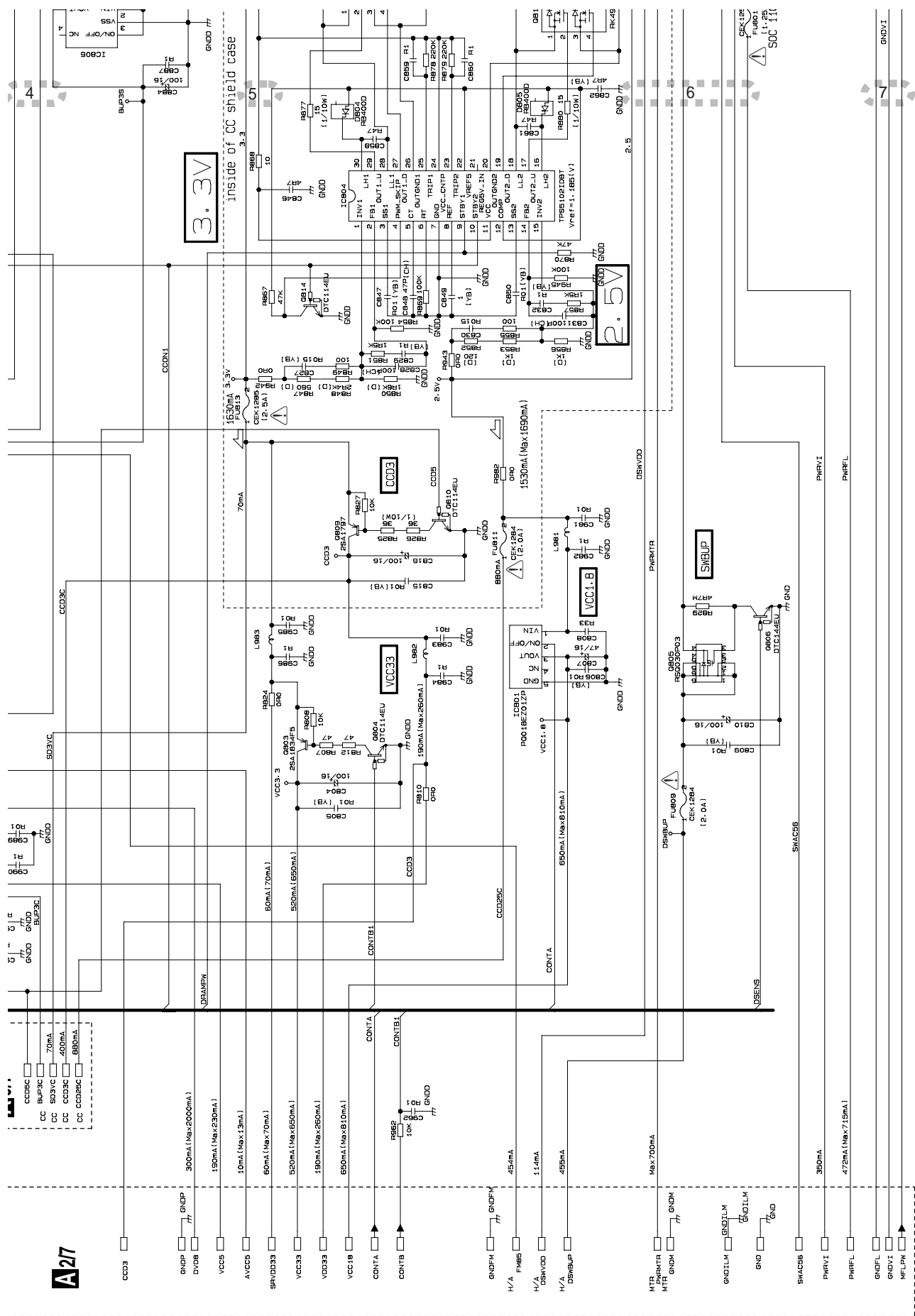
A B C D E F

A-b 1/7

A-a A-b

A-a 1/7

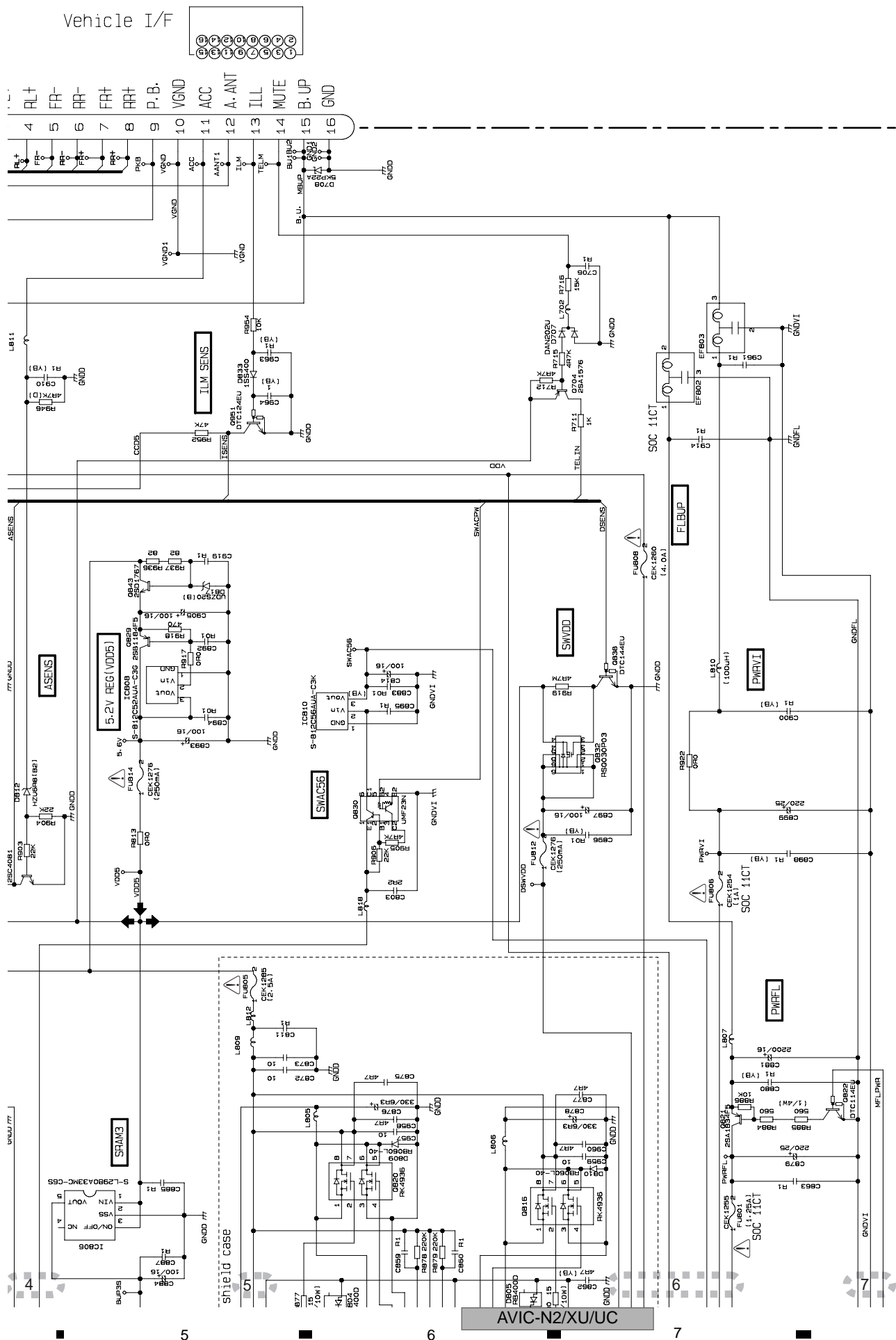




A-b 1/7

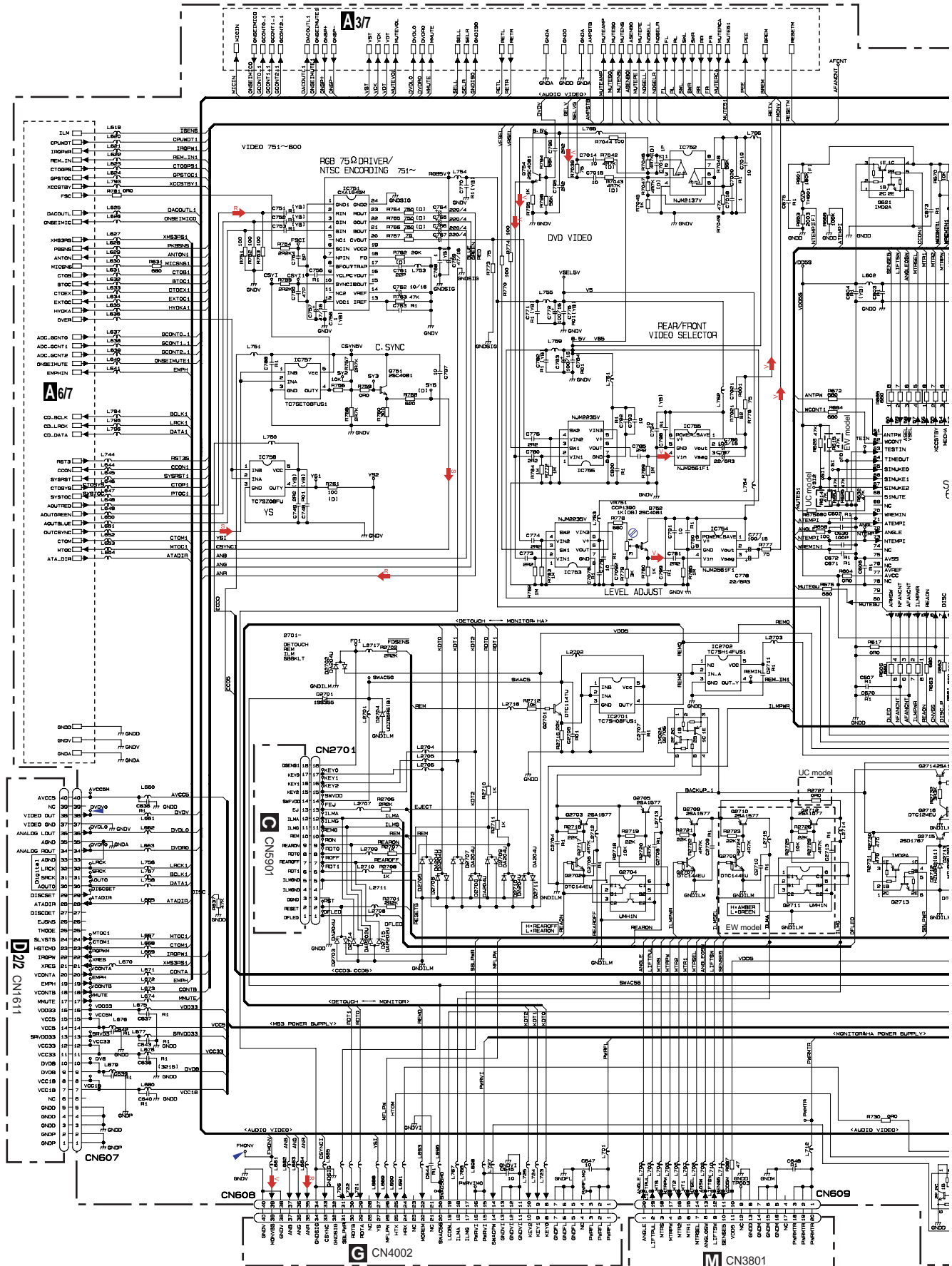
| A-a | A-b |
|-----|-----|
|-----|-----|

A-a 1/7



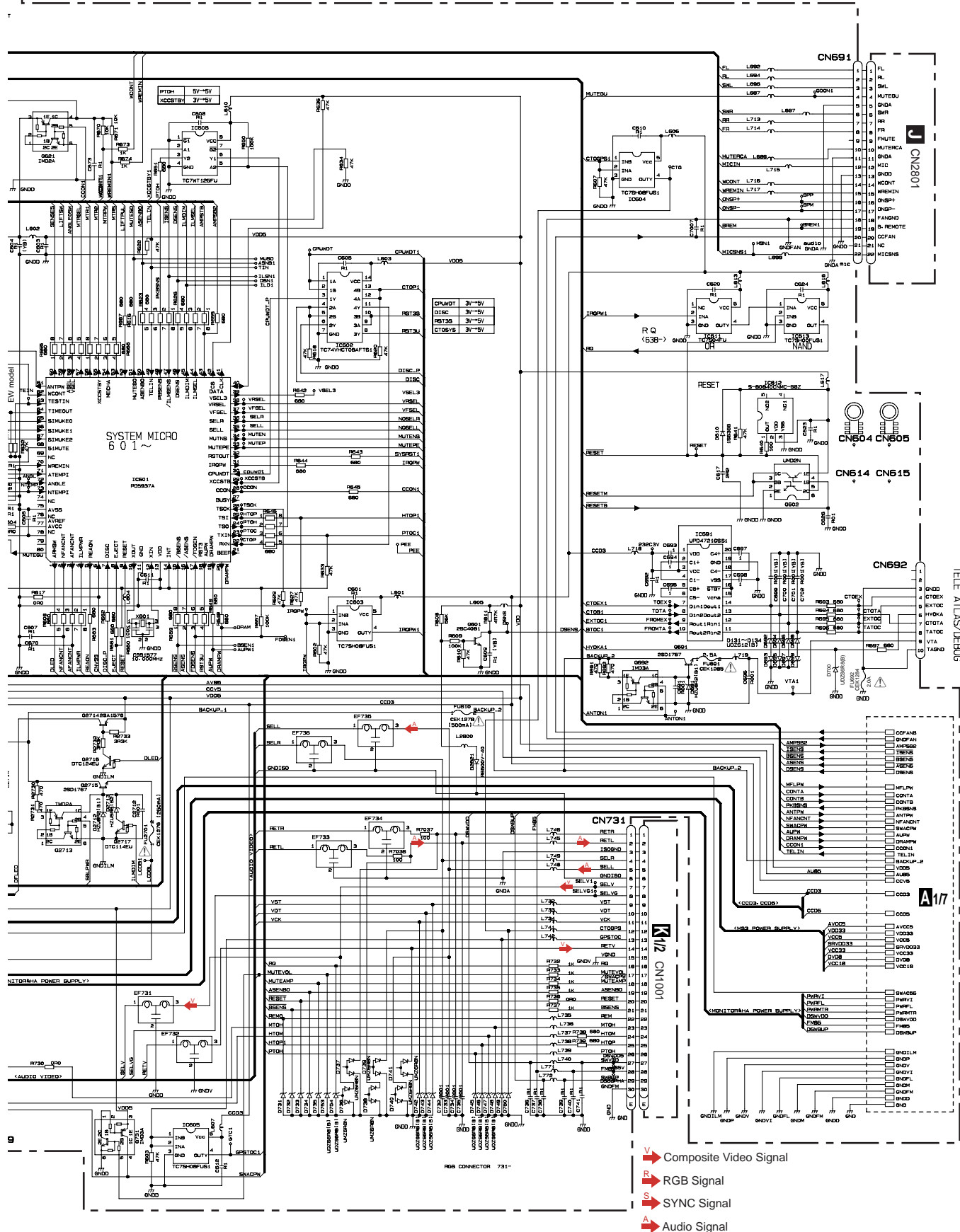
3.4 CC UNIT (SYSCOM, VIDEO, IF)(GUIDE PAGE)

A-a 2/7



A2/7

A2/7 CC UNIT (SYSCOM, VIDEO, IF)

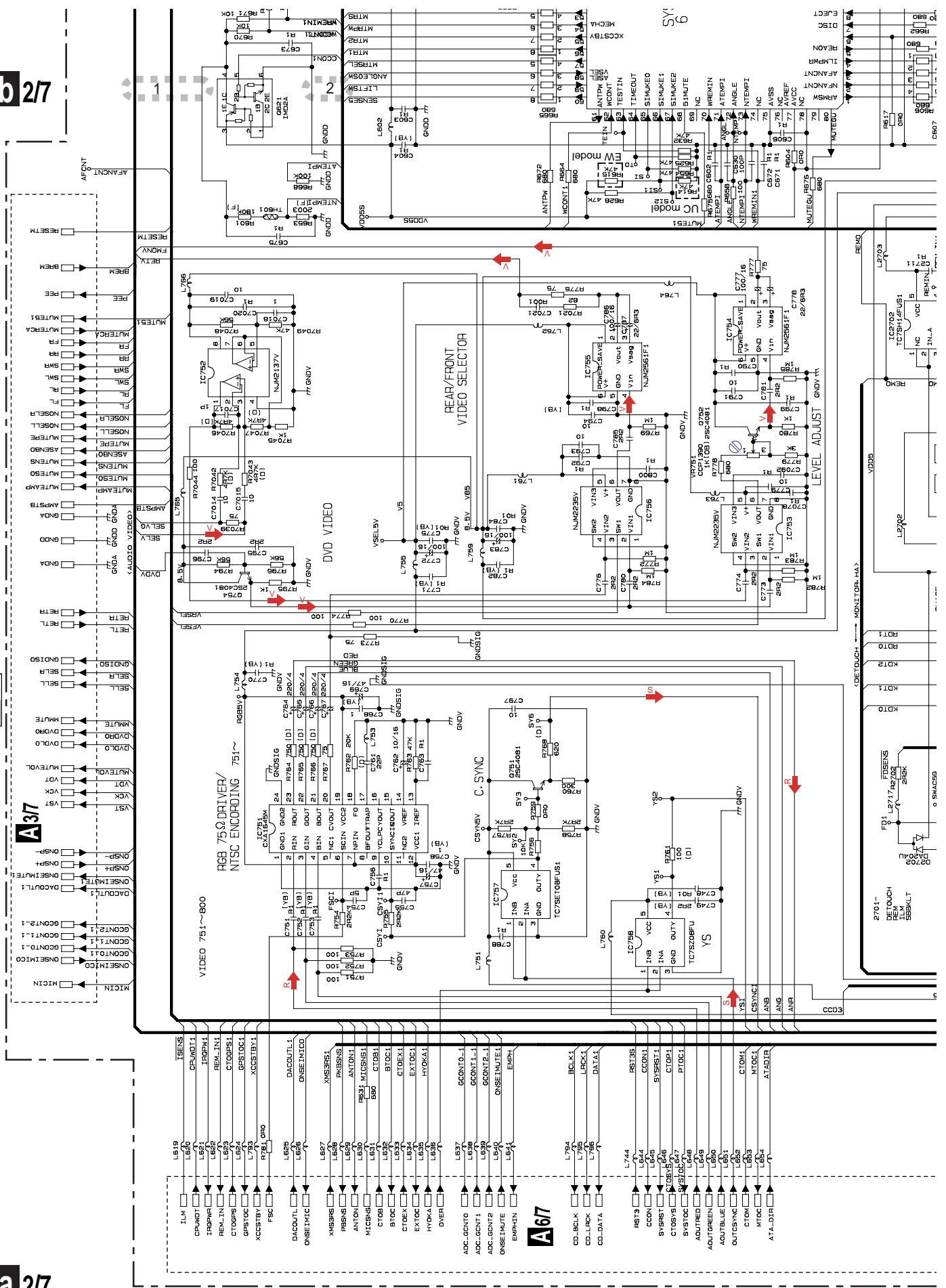


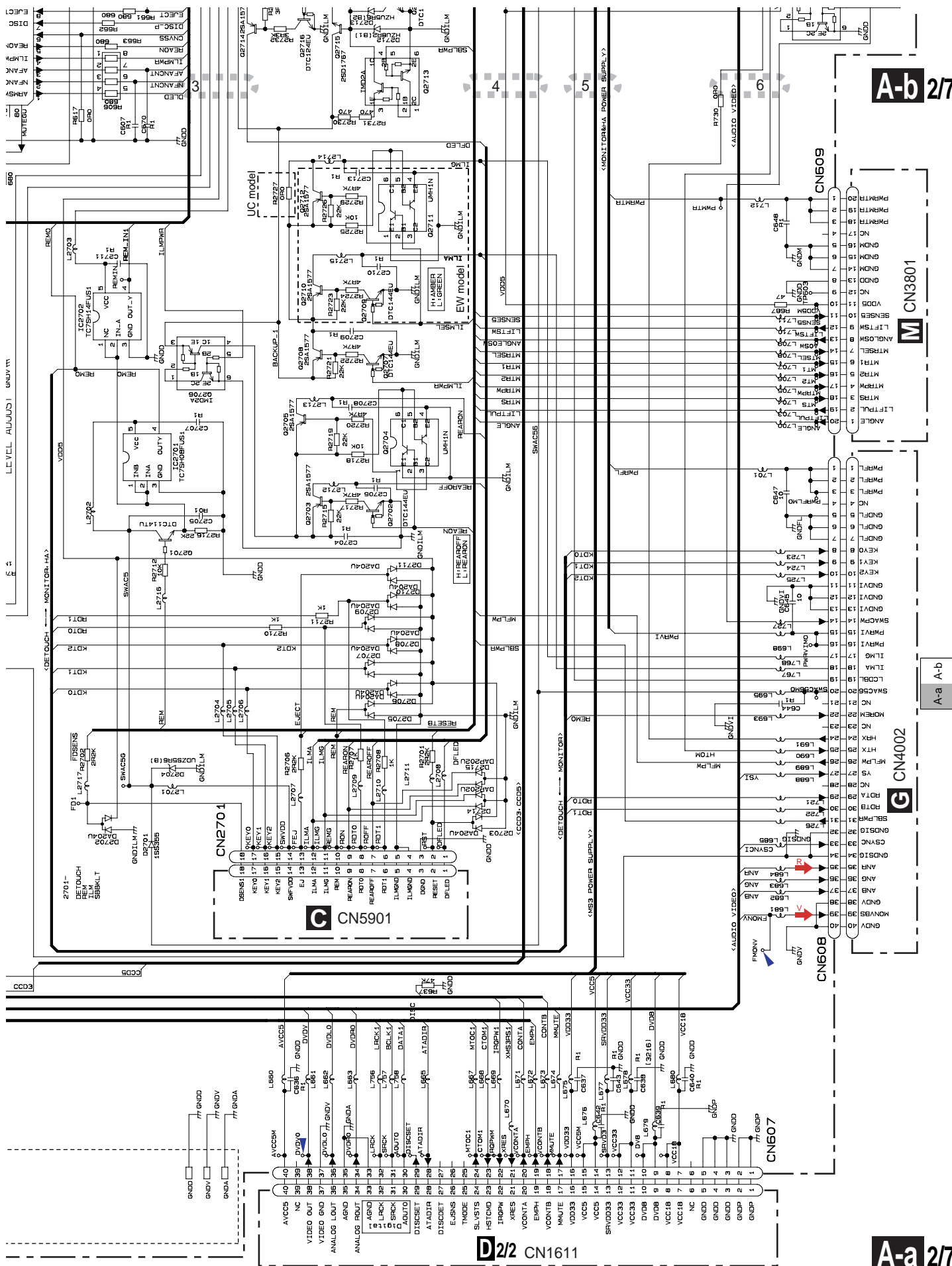
A B C D E F

A-b 2/7

A-a A-b

A-a 2/7





D2/2 CN1611

AVIC-N2/XU/UC

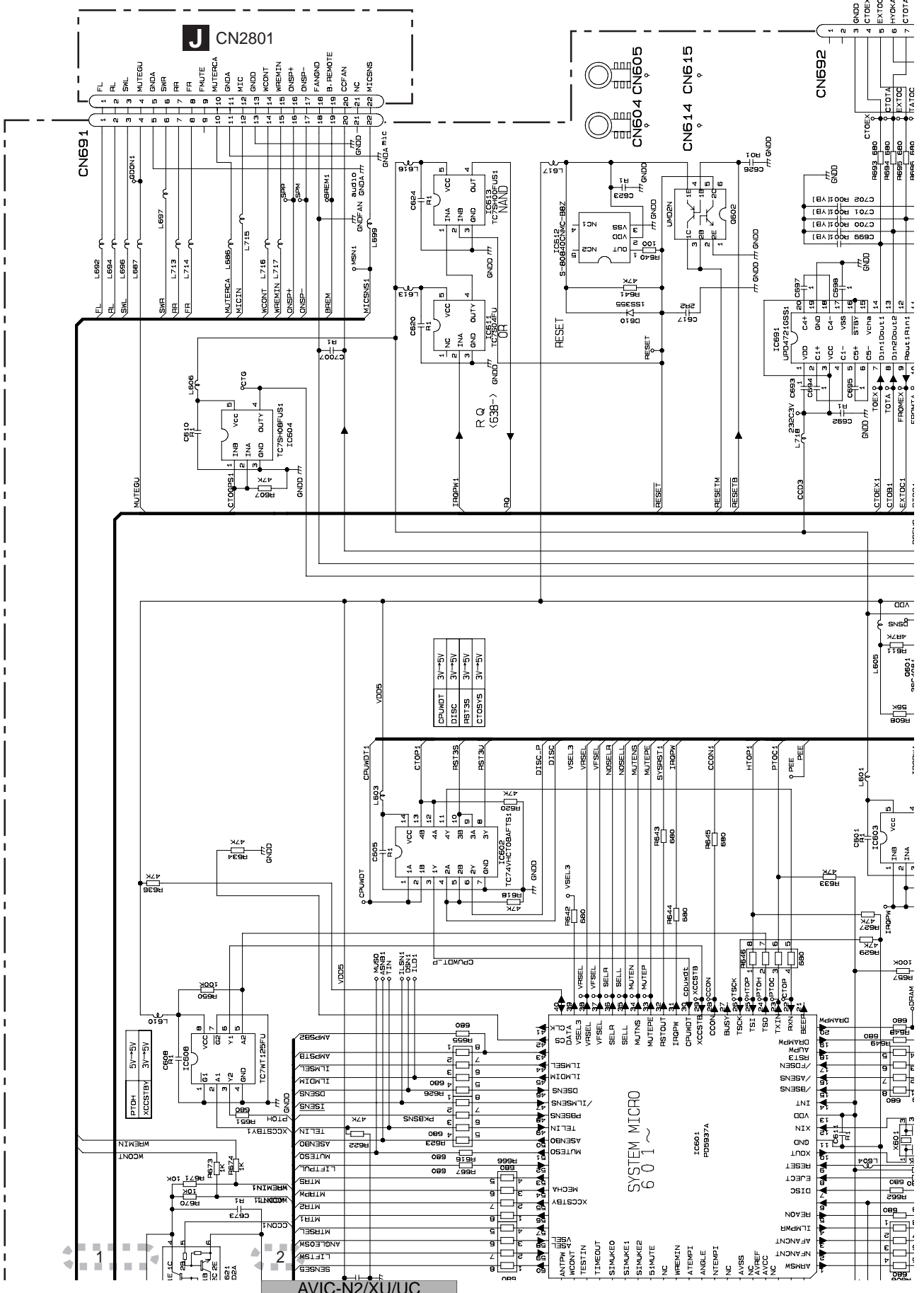
A-b 2/7

A-a 2/7

A
B
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F

A27 CC UNIT (SYSCOM, VIDEO, IF)

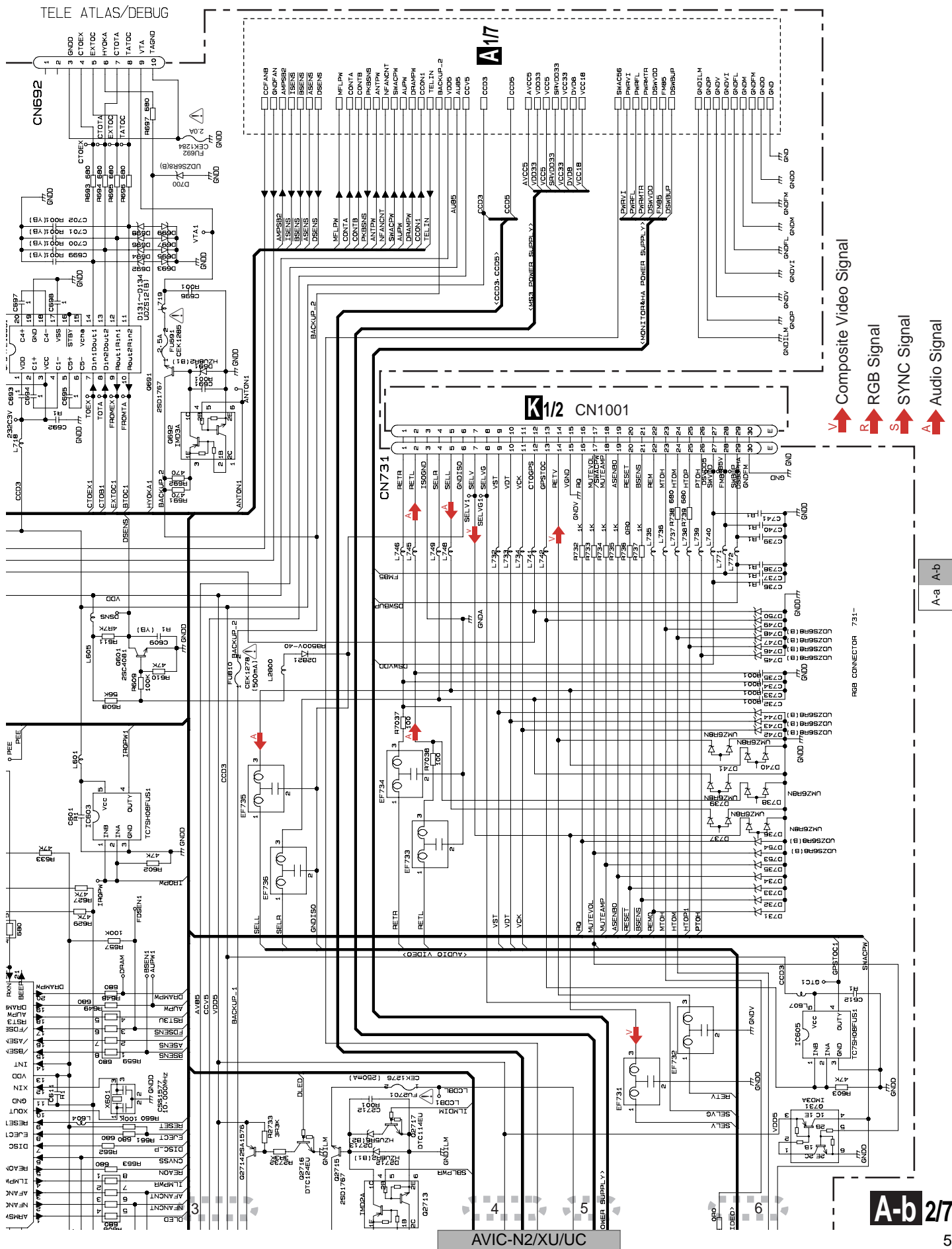
A-b 2/7



TELE ATLAS

SYSTEM MICRO 601

AVIC-N2/XU/UC



A-b 2/7

F



A-b 3/7

A-a A-b

A-a 3/7

AVIC-N2/XU/UC

MIC AMP

MIC HPF

MIC 1101~

ATT

| ATT LEVEL CONTROL | | | |
|-------------------|-----------|-----|---|
| PROGRAM | ATT LEVEL | ODB | |
| 0 | 1 | L | L |
| 1 | 2 | L | L |
| 2 | 3 | L | L |
| 3 | 4 | L | L |
| 4 | 5 | L | L |
| 5 | 6 | L | L |
| 6 | 7 | L | L |
| 7 | 8 | L | L |
| 8 | 9 | L | L |
| 9 | 10 | L | L |
| 10 | 11 | L | L |
| 11 | 12 | L | L |
| 12 | 13 | L | L |
| 13 | 14 | L | L |
| 14 | 15 | L | L |
| 15 | 16 | L | L |
| 16 | 17 | L | L |
| 17 | 18 | L | L |
| 18 | 19 | L | L |
| 19 | 20 | L | L |
| 20 | 21 | L | L |
| 21 | 22 | L | L |
| 22 | 23 | L | L |
| 23 | 24 | L | L |
| 24 | 25 | L | L |
| 25 | 26 | L | L |
| 26 | 27 | L | L |
| 27 | 28 | L | L |
| 28 | 29 | L | L |
| 29 | 30 | L | L |
| 30 | 31 | L | L |
| 31 | 32 | L | L |
| 32 | 33 | L | L |
| 33 | 34 | L | L |
| 34 | 35 | L | L |
| 35 | 36 | L | L |
| 36 | 37 | L | L |
| 37 | 38 | L | L |
| 38 | 39 | L | L |
| 39 | 40 | L | L |
| 40 | 41 | L | L |
| 41 | 42 | L | L |
| 42 | 43 | L | L |
| 43 | 44 | L | L |
| 44 | 45 | L | L |
| 45 | 46 | L | L |
| 46 | 47 | L | L |
| 47 | 48 | L | L |
| 48 | 49 | L | L |
| 49 | 50 | L | L |
| 50 | 51 | L | L |
| 51 | 52 | L | L |
| 52 | 53 | L | L |
| 53 | 54 | L | L |
| 54 | 55 | L | L |
| 55 | 56 | L | L |
| 56 | 57 | L | L |
| 57 | 58 | L | L |
| 58 | 59 | L | L |
| 59 | 60 | L | L |
| 60 | 61 | L | L |
| 61 | 62 | L | L |
| 62 | 63 | L | L |
| 63 | 64 | L | L |
| 64 | 65 | L | L |
| 65 | 66 | L | L |
| 66 | 67 | L | L |
| 67 | 68 | L | L |
| 68 | 69 | L | L |
| 69 | 70 | L | L |
| 70 | 71 | L | L |
| 71 | 72 | L | L |
| 72 | 73 | L | L |
| 73 | 74 | L | L |
| 74 | 75 | L | L |
| 75 | 76 | L | L |
| 76 | 77 | L | L |
| 77 | 78 | L | L |
| 78 | 79 | L | L |
| 79 | 80 | L | L |
| 80 | 81 | L | L |
| 81 | 82 | L | L |
| 82 | 83 | L | L |
| 83 | 84 | L | L |
| 84 | 85 | L | L |
| 85 | 86 | L | L |
| 86 | 87 | L | L |
| 87 | 88 | L | L |
| 88 | 89 | L | L |
| 89 | 90 | L | L |
| 90 | 91 | L | L |
| 91 | 92 | L | L |
| 92 | 93 | L | L |
| 93 | 94 | L | L |
| 94 | 95 | L | L |
| 95 | 96 | L | L |
| 96 | 97 | L | L |
| 97 | 98 | L | L |
| 98 | 99 | L | L |
| 99 | 100 | L | L |

A17

A27

AU4. 7V
1011~

DVD BUFF. 1301~

DVD LPF

MICIN

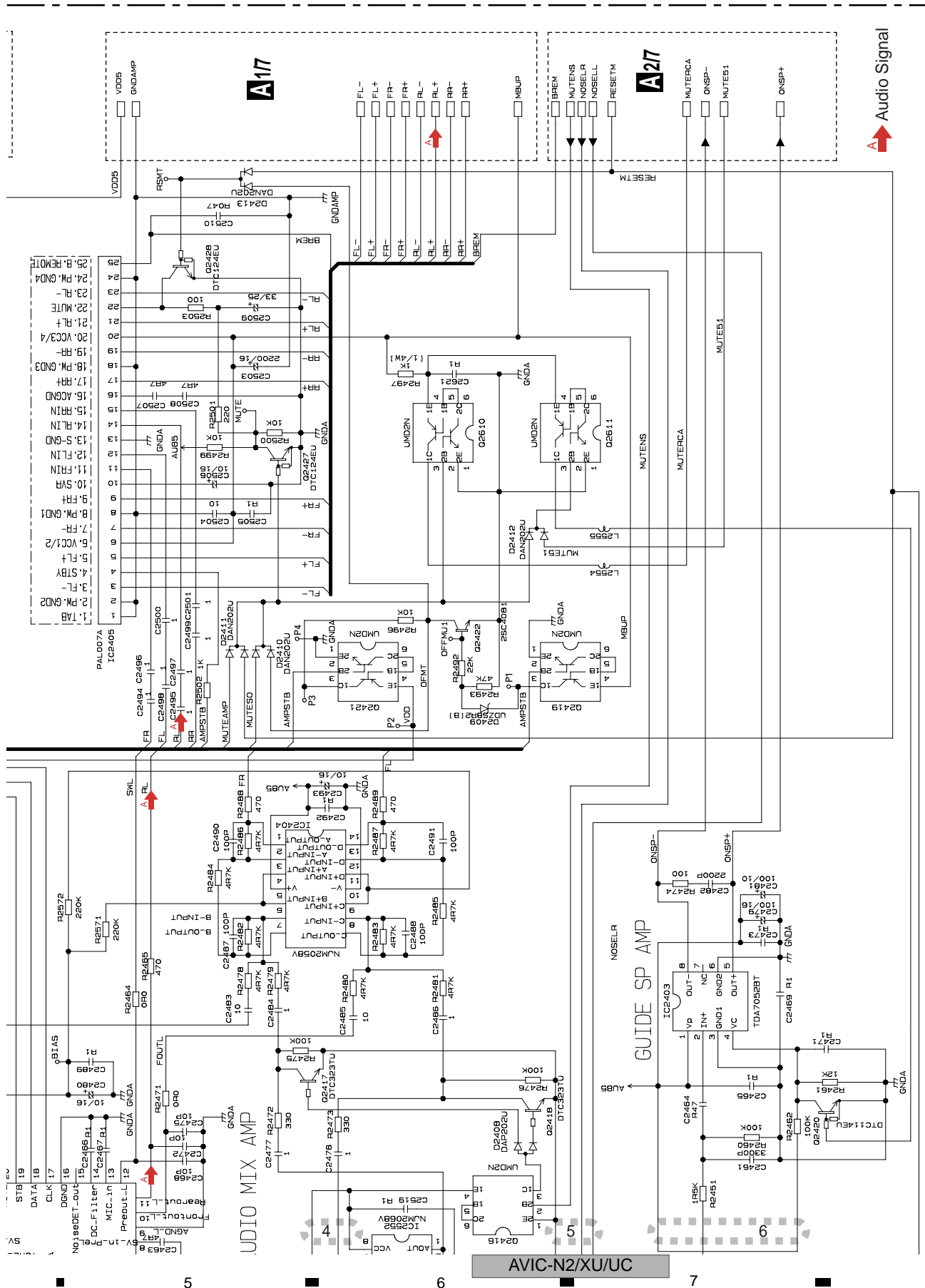
A17

A27

A17

A27





A-b 3/7

3.6 CC UNIT (CPU, ASIC, SDRAM)(GUIDE PAGE)

A

A-a 4/7

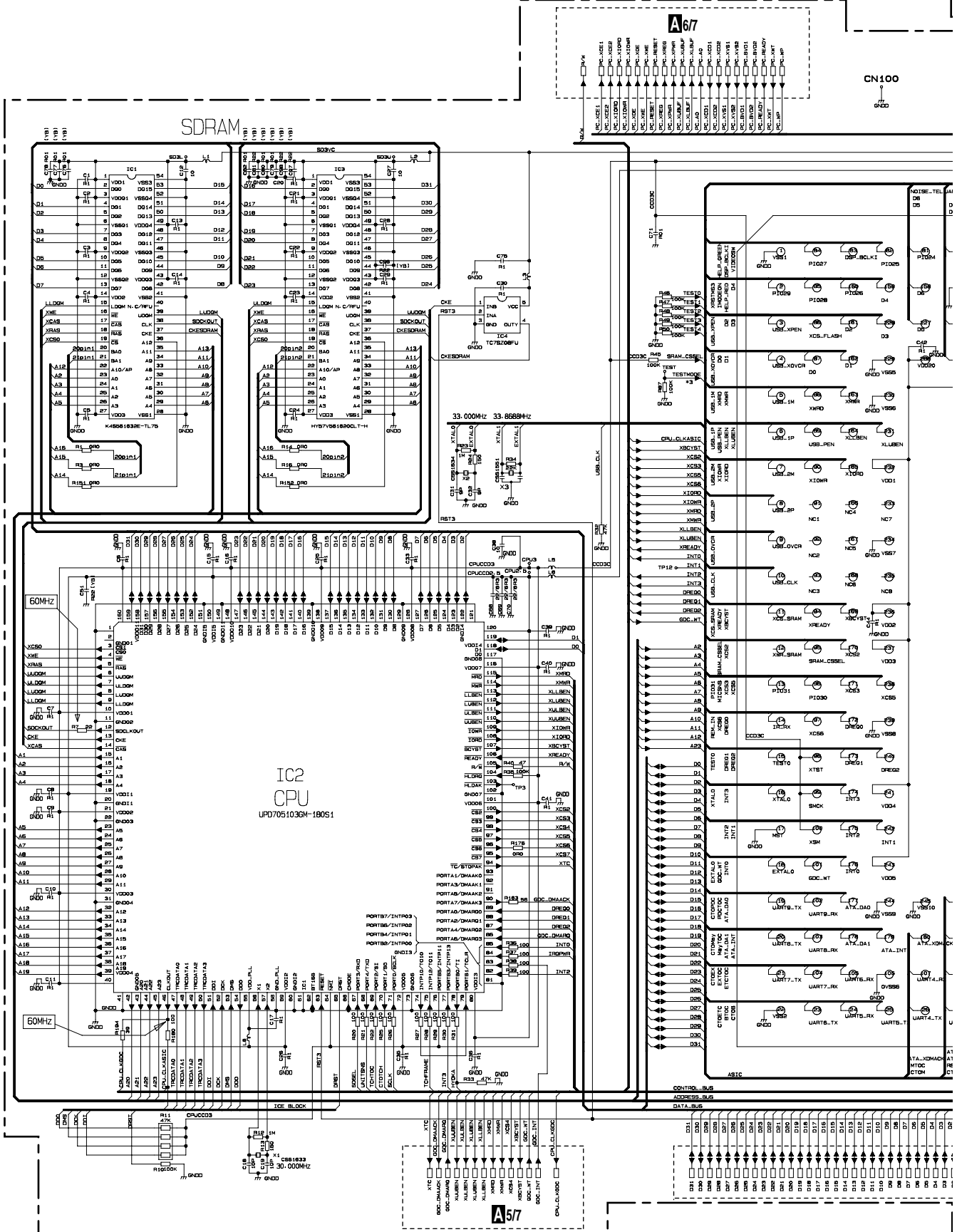
B

C

D

E

F

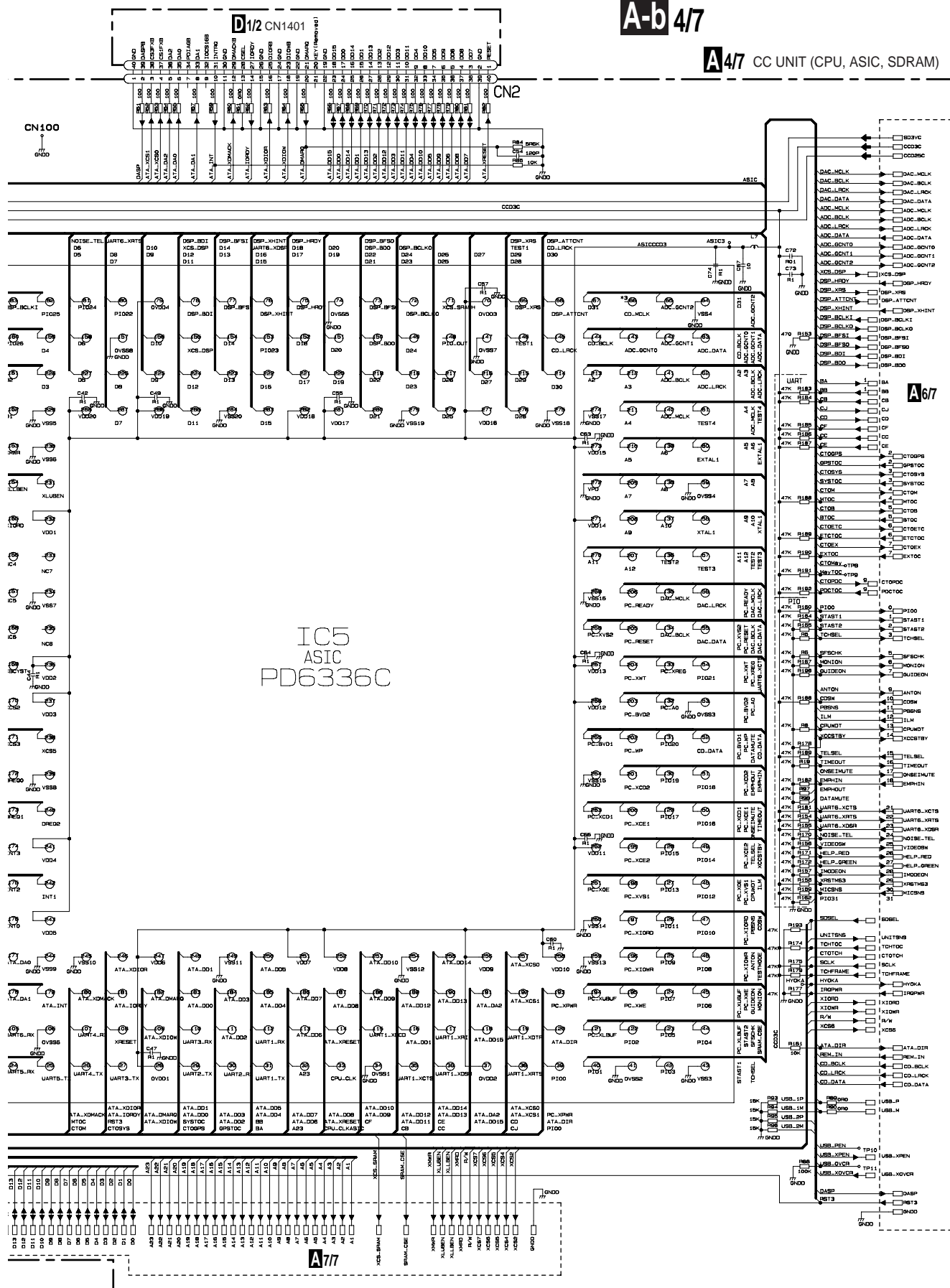


A 4/7

AVIC-N2/XU/UC

A-b 4/7

A47 CC UNIT (CPU, ASIC, SDRAM)

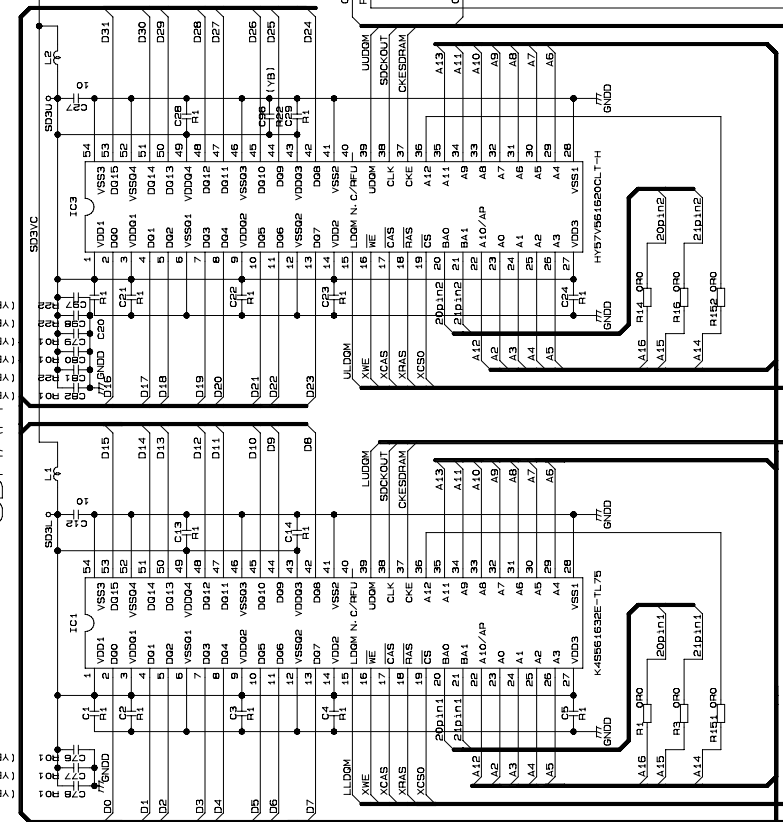


A-b 4/7

A67

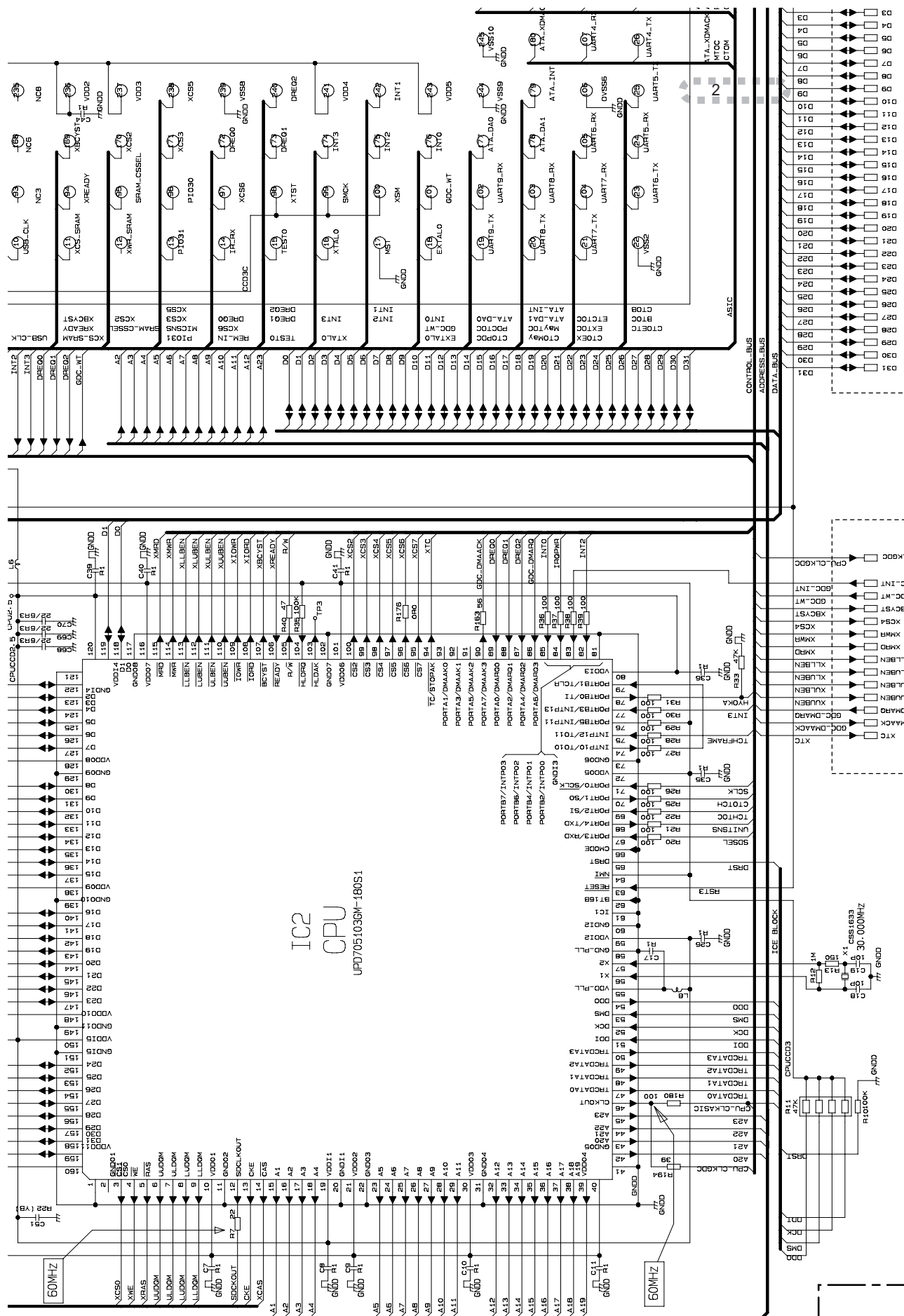
PC.XCE1
PC.XCE2
PC.XCE3
PC.XCE4
PC.XCE5
PC.XCE6
PC.XCE7
PC.XCE8
PC.XCE9
PC.XCE10
PC.XCE11
PC.XCE12
PC.XCE13
PC.XCE14
PC.XCE15
PC.XCE16
PC.XCE17
PC.XCE18
PC.XCE19
PC.XCE20
PC.XCE21
PC.XCE22
PC.XCE23
PC.XCE24
PC.XCE25
PC.XCE26
PC.XCE27
PC.XCE28
PC.XCE29
PC.XCE30
PC.XCE31
PC.XCE32
PC.XCE33
PC.XCE34
PC.XCE35
PC.XCE36
PC.XCE37
PC.XCE38
PC.XCE39
PC.XCE40
PC.XCE41
PC.XCE42
PC.XCE43
PC.XCE44
PC.XCE45
PC.XCE46
PC.XCE47
PC.XCE48
PC.XCE49
PC.XCE50
PC.XCE51
PC.XCE52
PC.XCE53
PC.XCE54
PC.XCE55
PC.XCE56
PC.XCE57
PC.XCE58
PC.XCE59
PC.XCE60
PC.XCE61
PC.XCE62
PC.XCE63
PC.XCE64
PC.XCE65
PC.XCE66
PC.XCE67
PC.XCE68
PC.XCE69
PC.XCE70
PC.XCE71
PC.XCE72
PC.XCE73
PC.XCE74
PC.XCE75
PC.XCE76
PC.XCE77
PC.XCE78
PC.XCE79
PC.XCE80
PC.XCE81
PC.XCE82
PC.XCE83
PC.XCE84
PC.XCE85
PC.XCE86
PC.XCE87
PC.XCE88
PC.XCE89
PC.XCE90
PC.XCE91
PC.XCE92
PC.XCE93
PC.XCE94
PC.XCE95
PC.XCE96
PC.XCE97
PC.XCE98
PC.XCE99
PC.XCE100

SDRAM



A-a 4/7

AVIC-N2/XU/UC

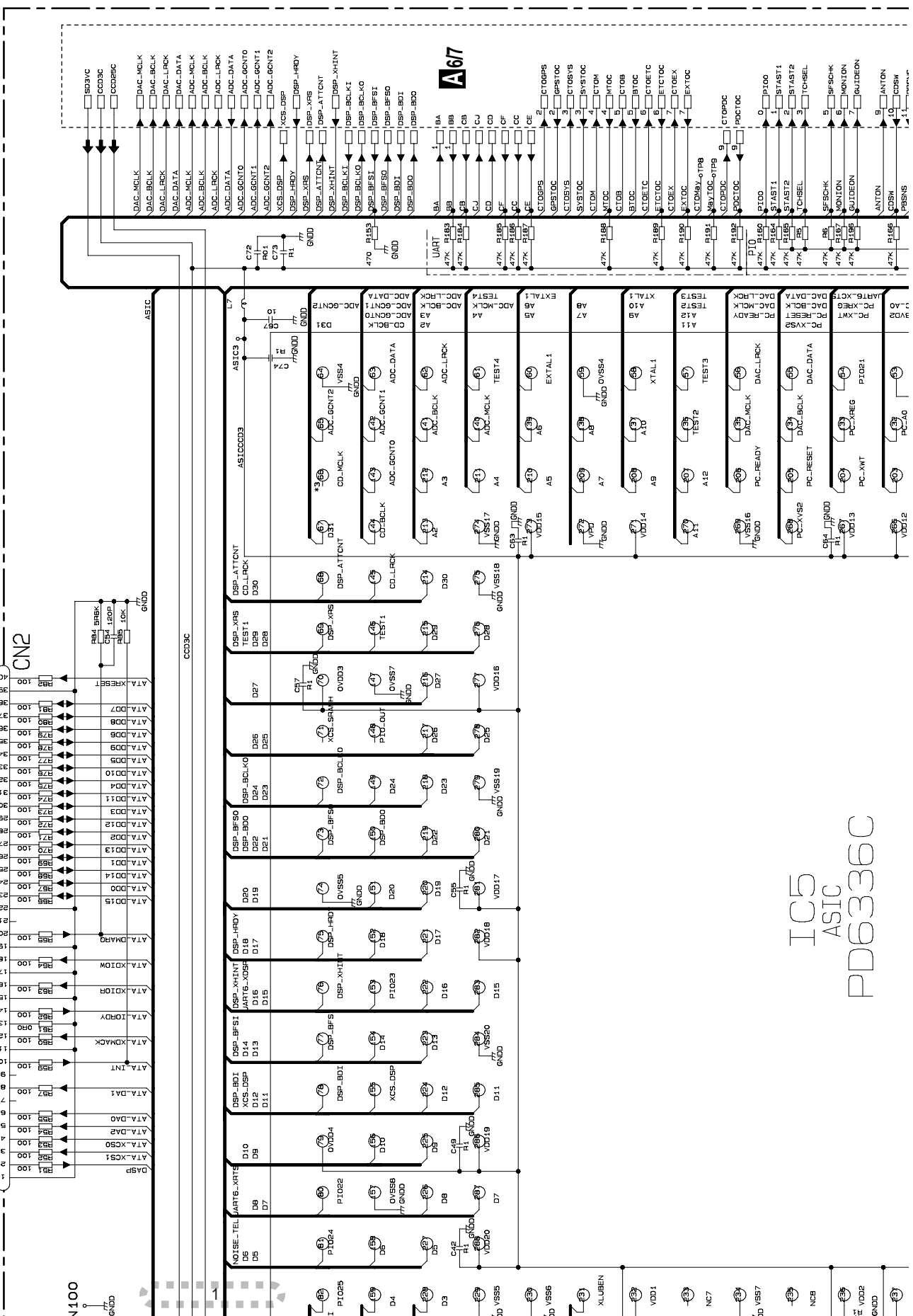


A B C D E F

A47 CC UNIT (CPU, ASIC, SDRAM)

D1/2 CN1401

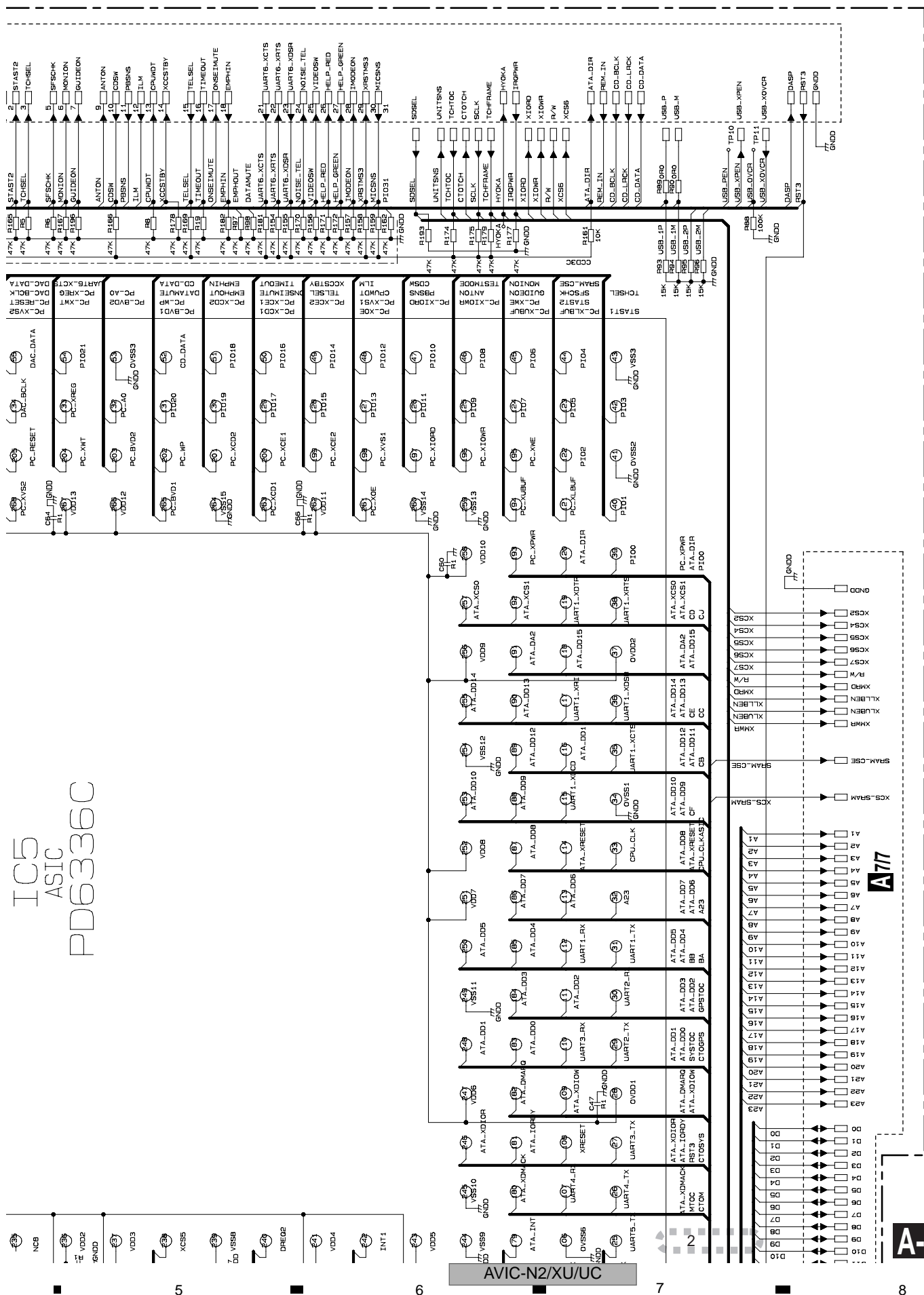
A-b 4/7



IC5
ASIC
PD6336C

AVIC-N2/XU/UC

IC5
ASIC
PD6336C



| A-a | A-b |
|-----|-----|
|-----|-----|

A-b 4/7

3.7 CC UNIT (GRAPHIC)

A

A5/7 CC UNIT (GRAPHIC)

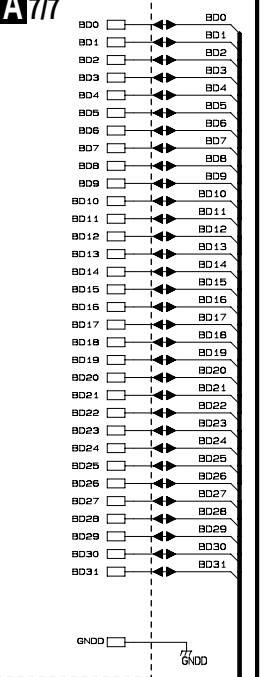
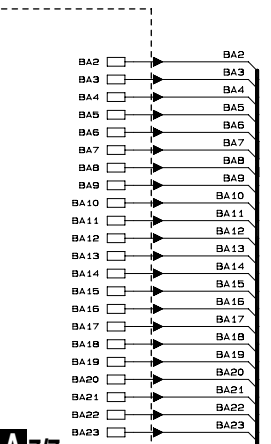
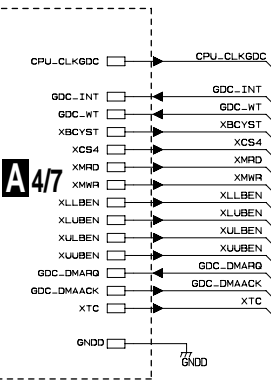
B

C

D

E

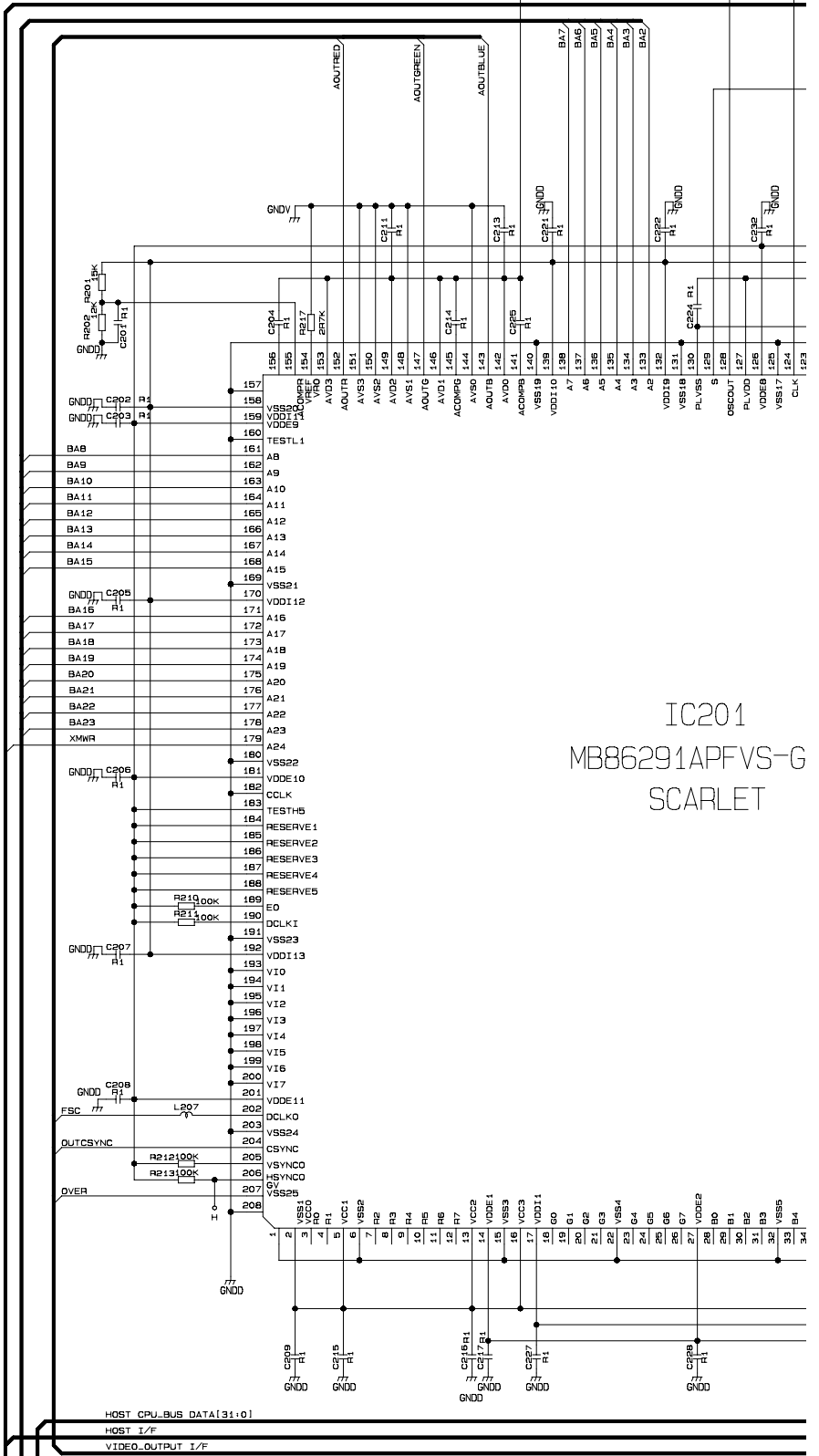
F



HOST I/F

HOST CPU_BUS ADDRESS[24:2]

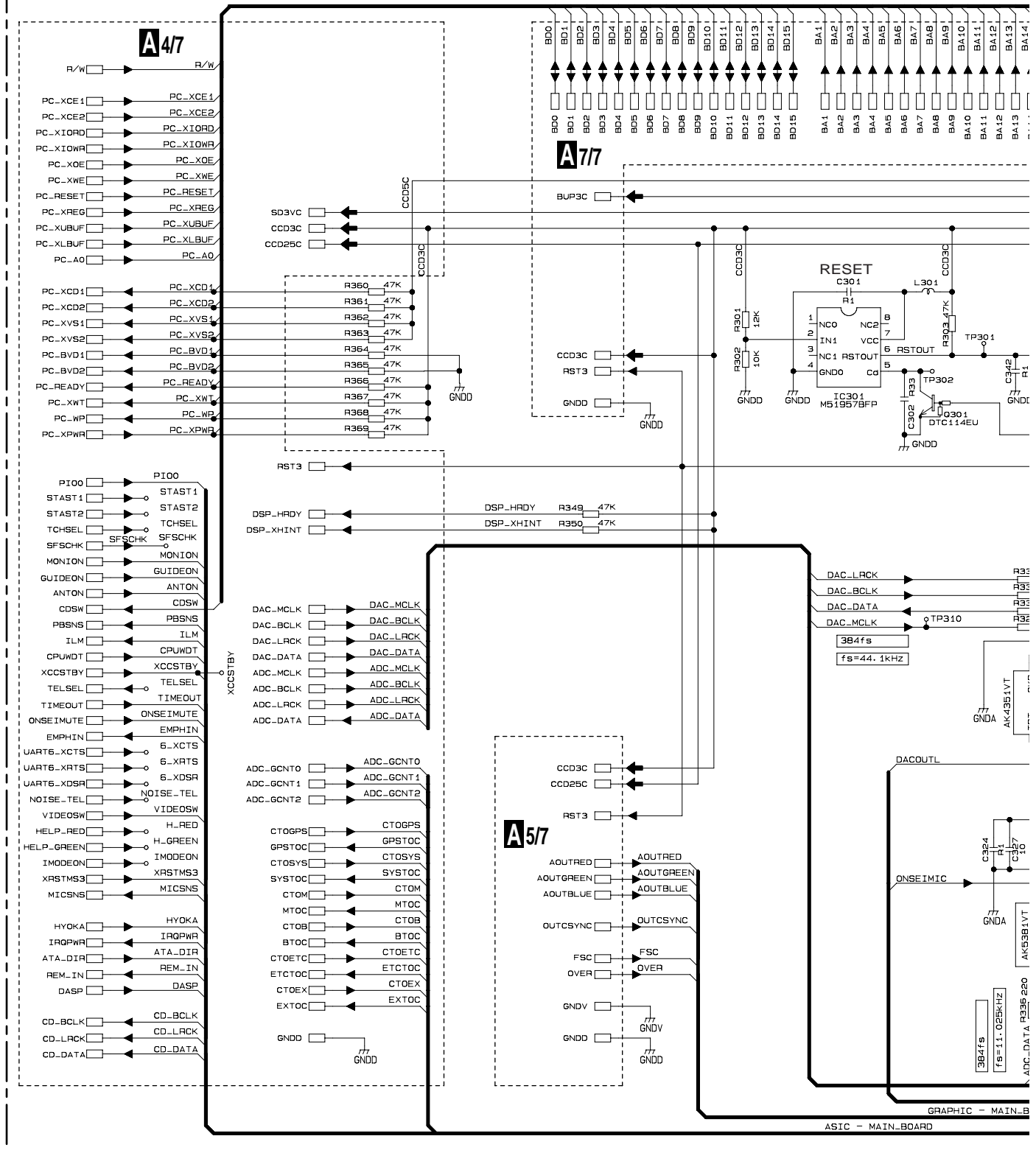
HOST CPU_BUS DATA[31:0]





3.8 CC UNIT (MAIN, CC CORE I/F)

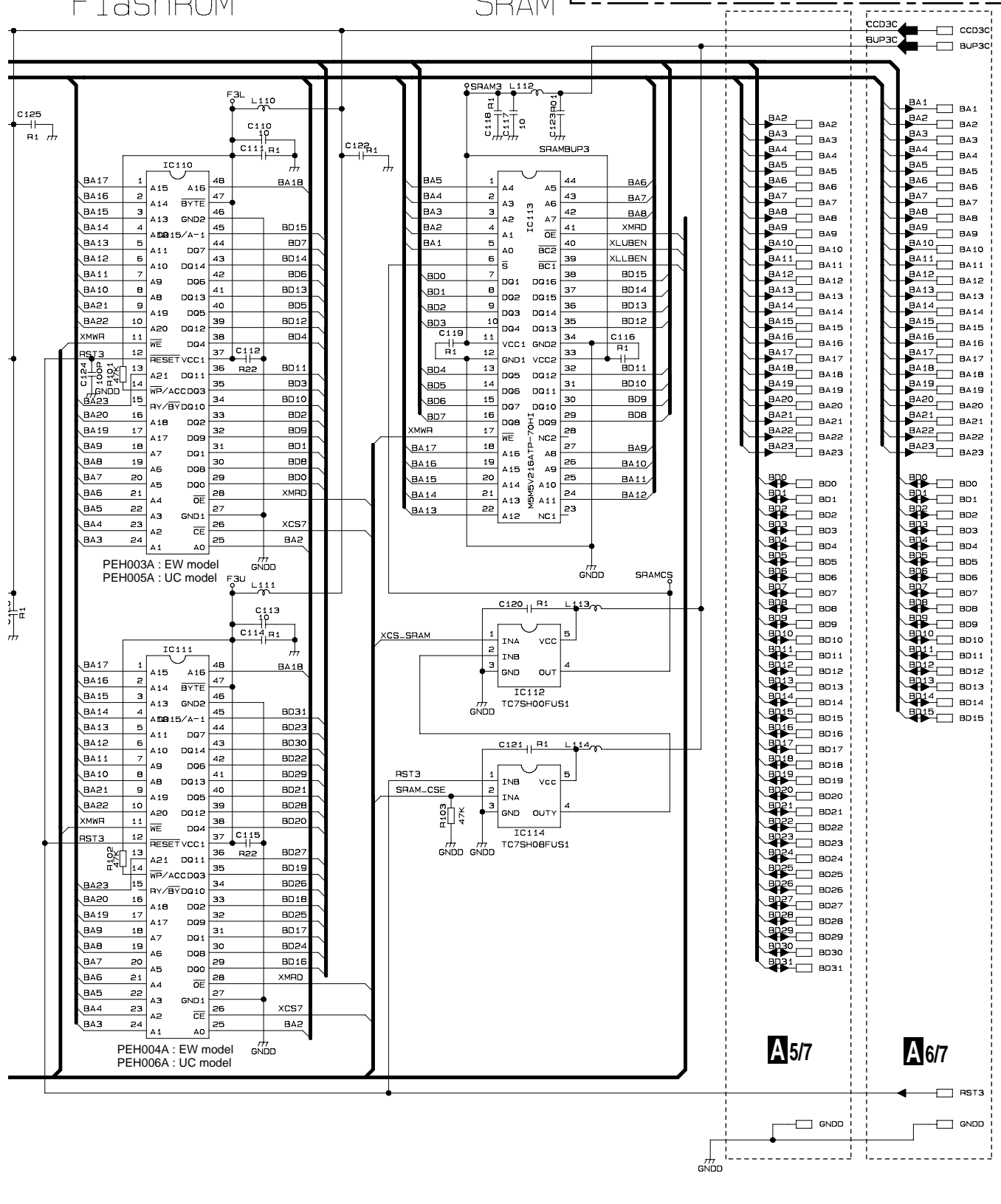
A6/7 CC UNIT (MAIN, CC CORE I/F)





FlashROM

SRAM

A77 CC UNIT (ROM, SRAM, BUS-BUFFER)

3.10 KEYBOARD PCB

A

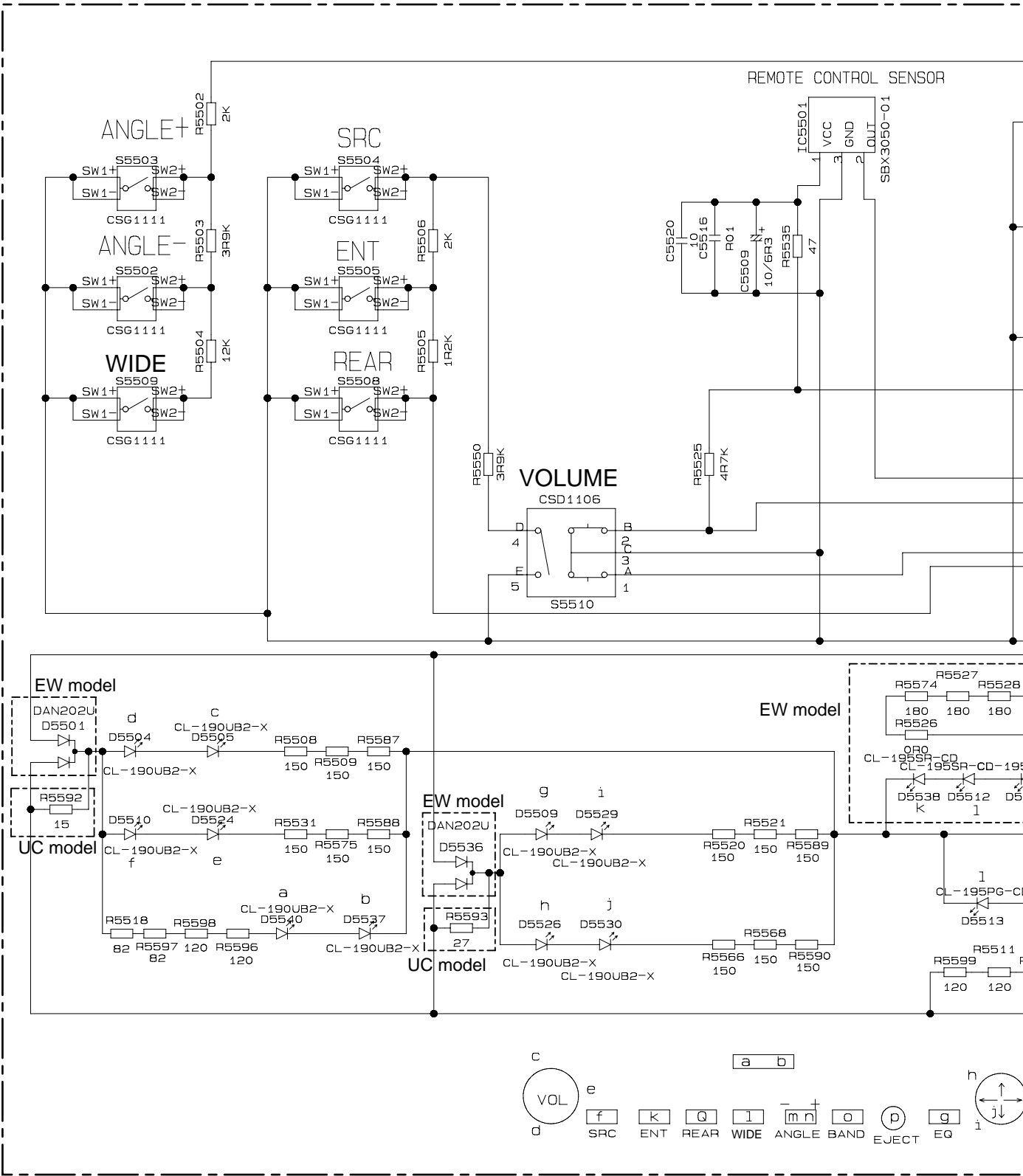
B

C

D

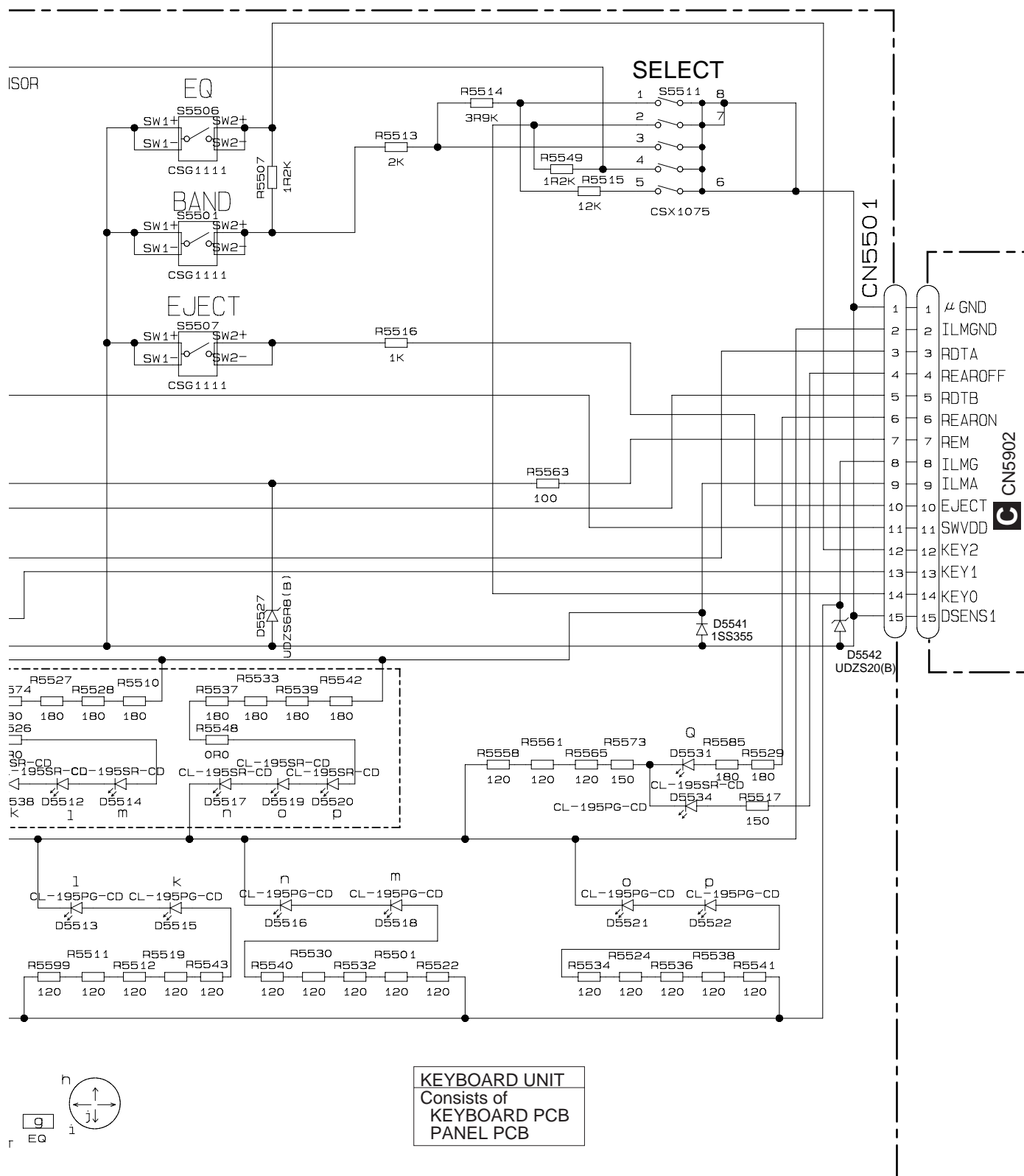
E

F

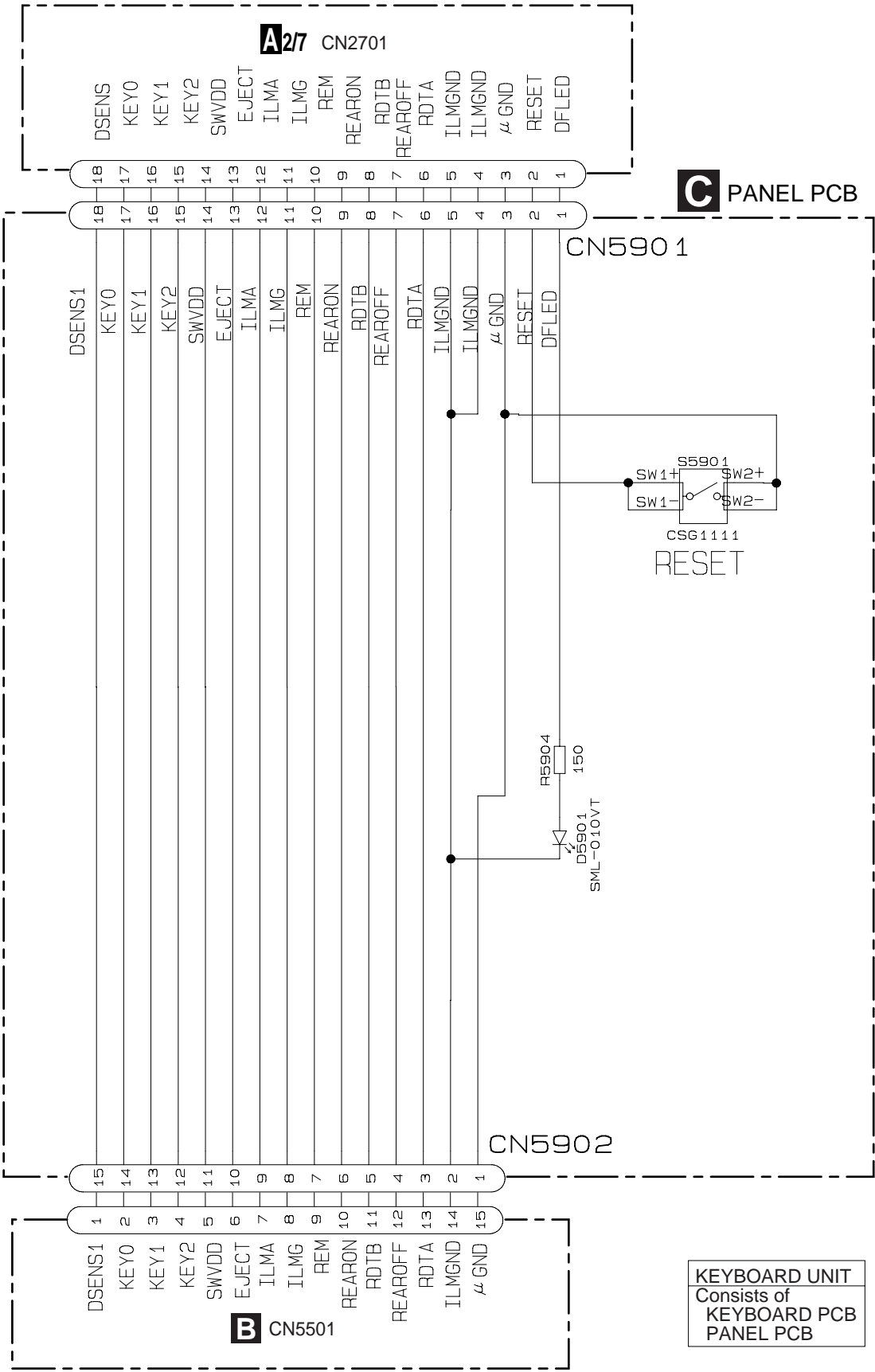


B

B KEYBOARD PCB



3.11 PANEL PCB



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A

B

C

D

E

F

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AVIC-N2/XU/UC

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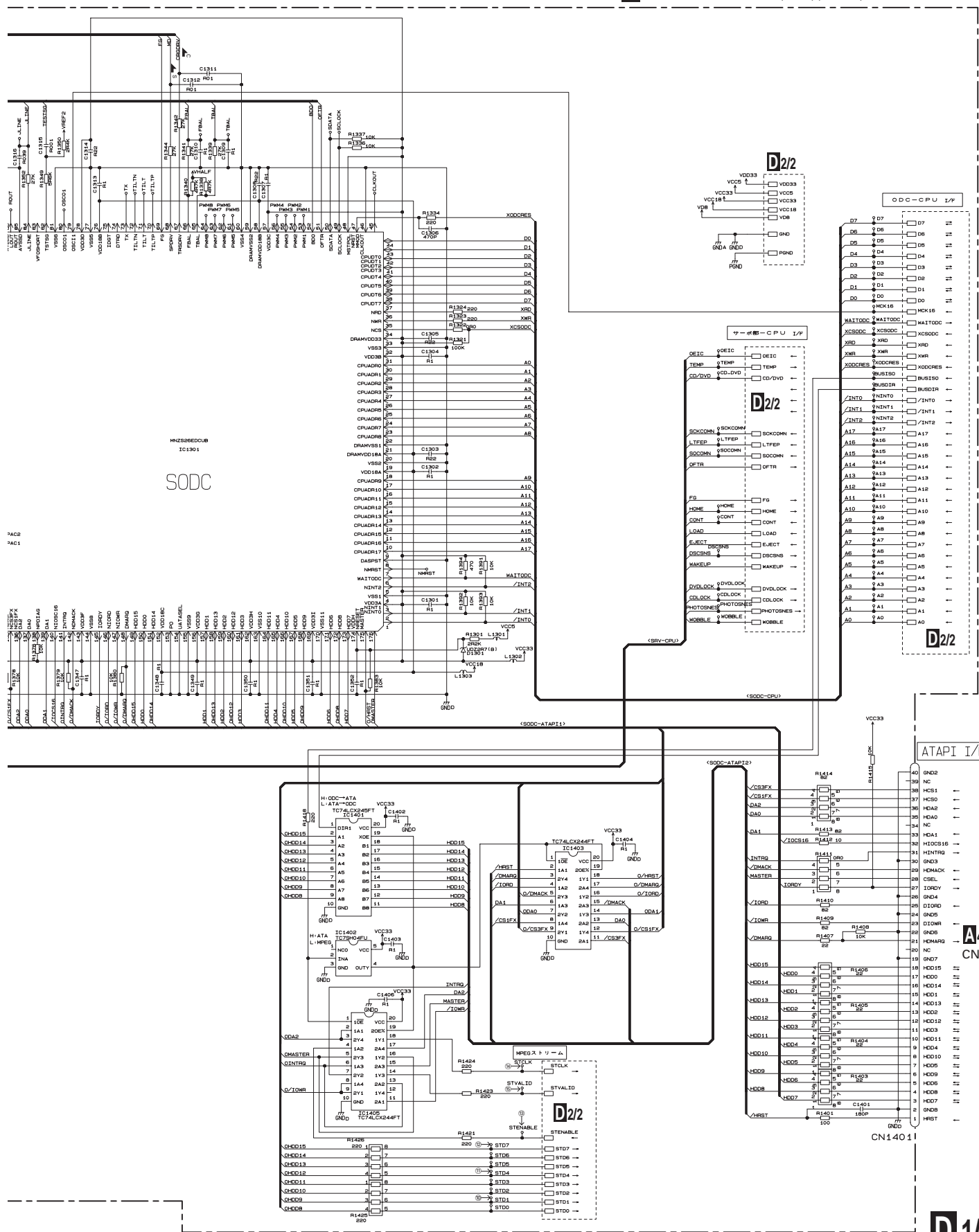
4

D



D-b 1/2

D1/2 DVD CORE UNIT(MS3)(SODC)



A

D-b 1/2

B

C

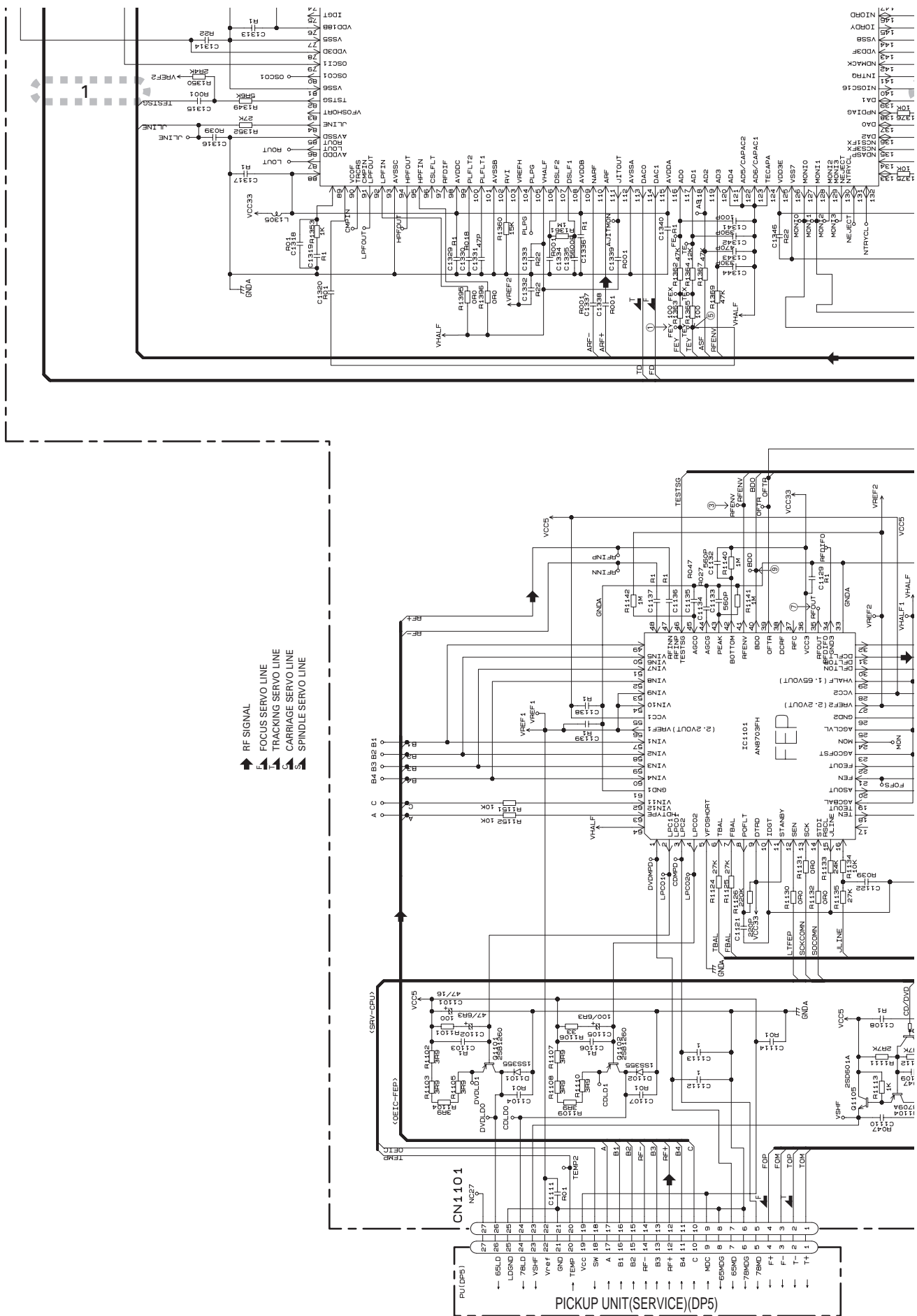
D

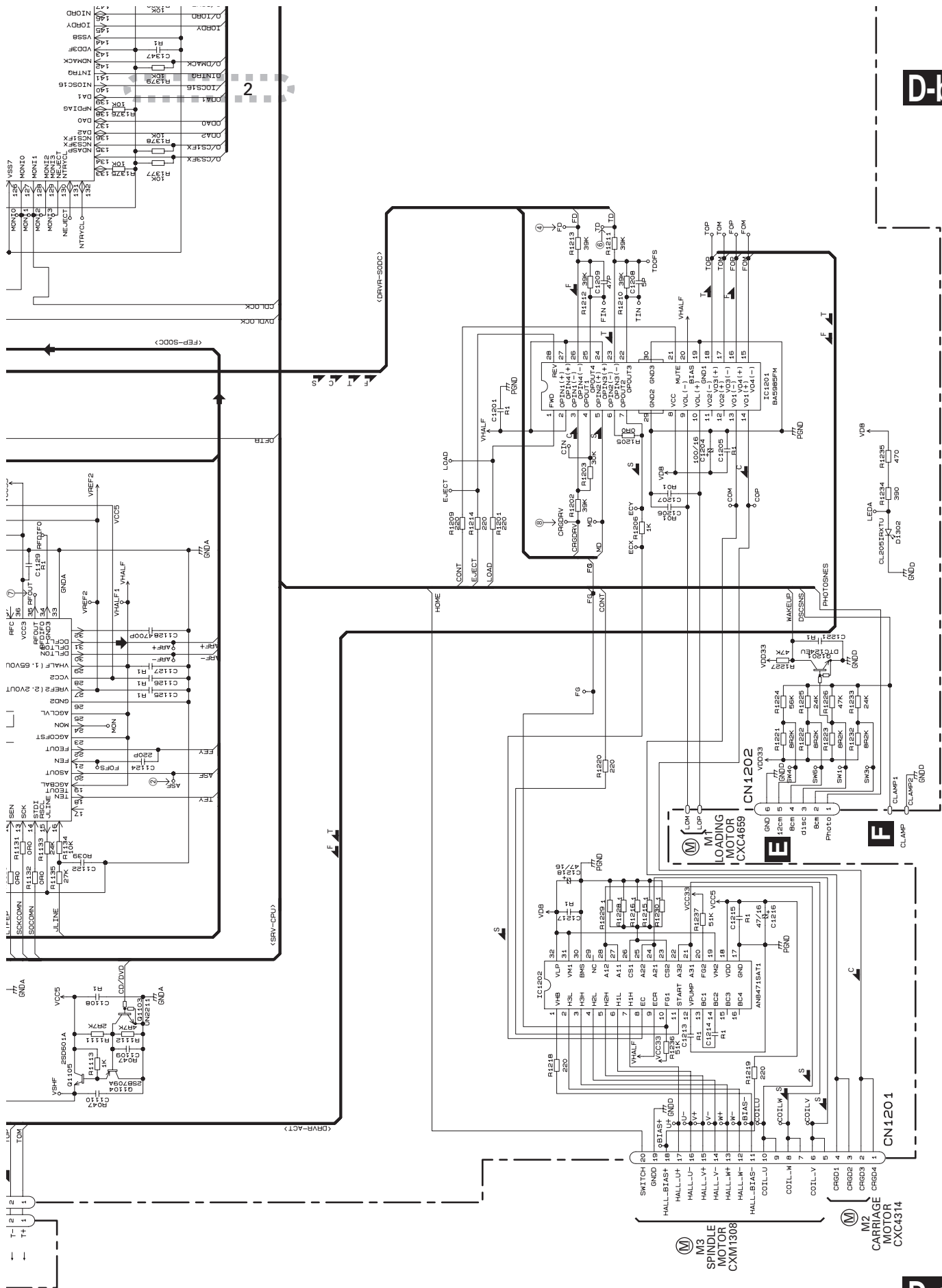
E

F

D-a D-b

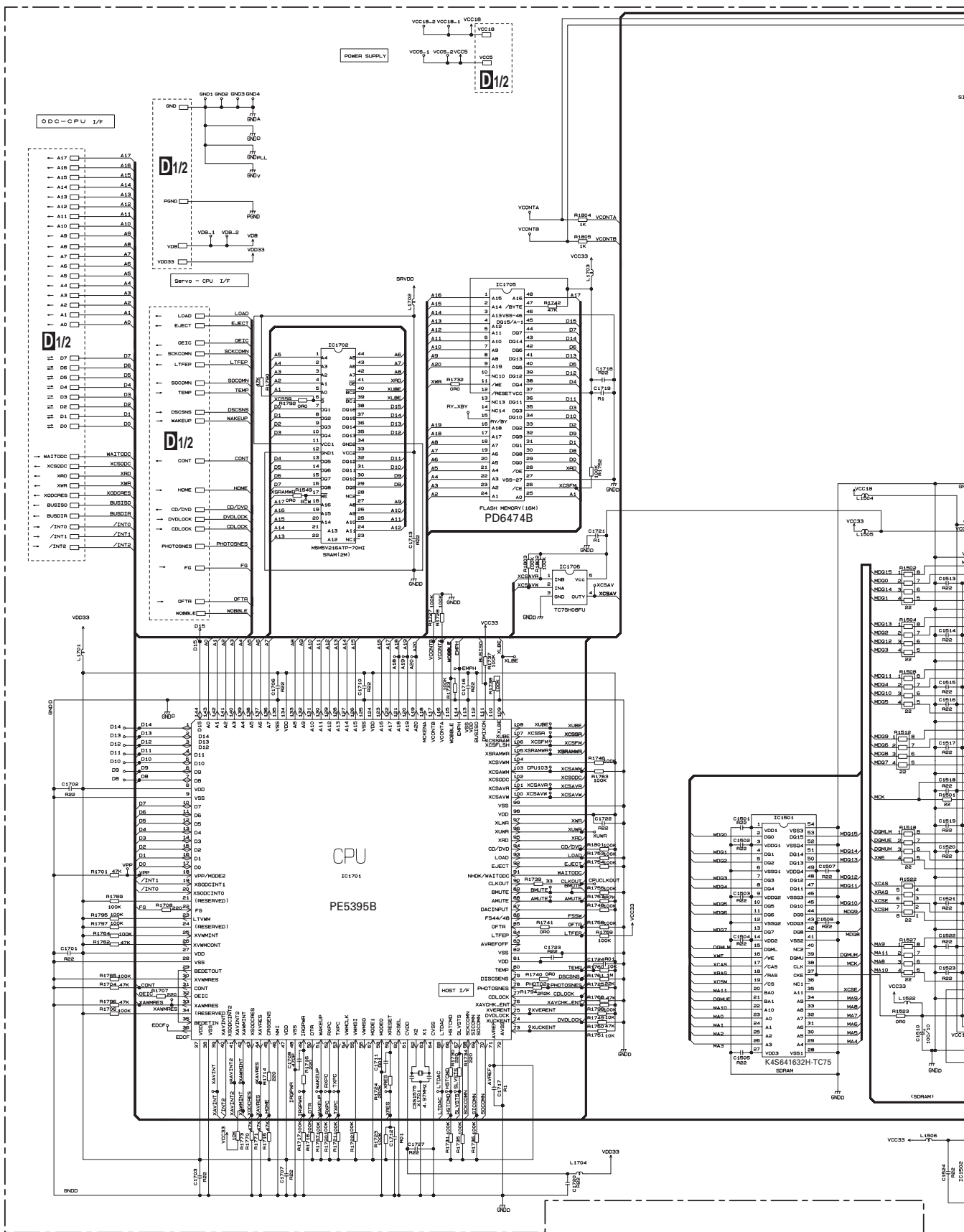
D-a 1/2





3.13 DVD CORE UNIT(MS3)(CPU)(GUIDE PAGE)

D-a 2/2

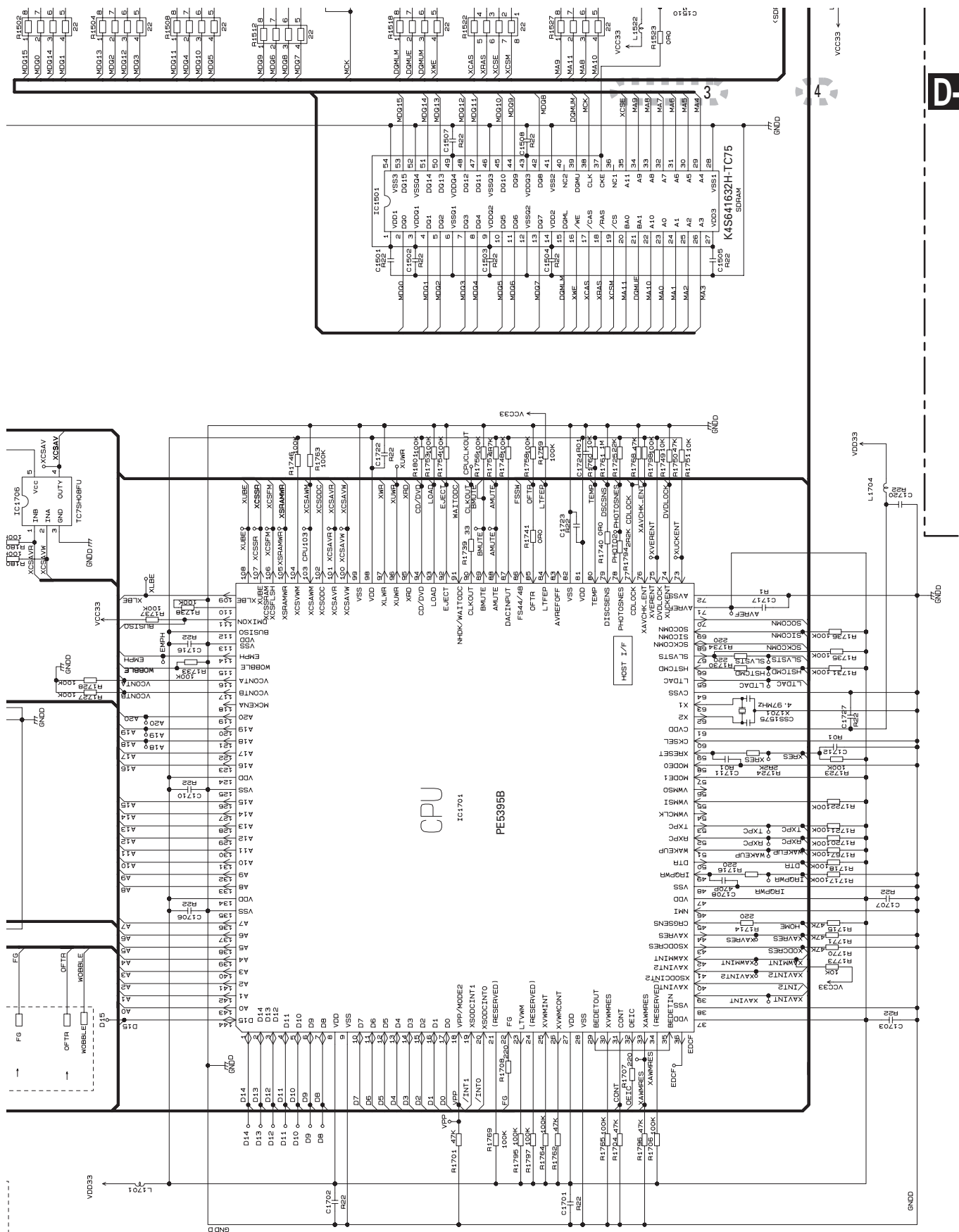




D-b 2/2

D-a D-b

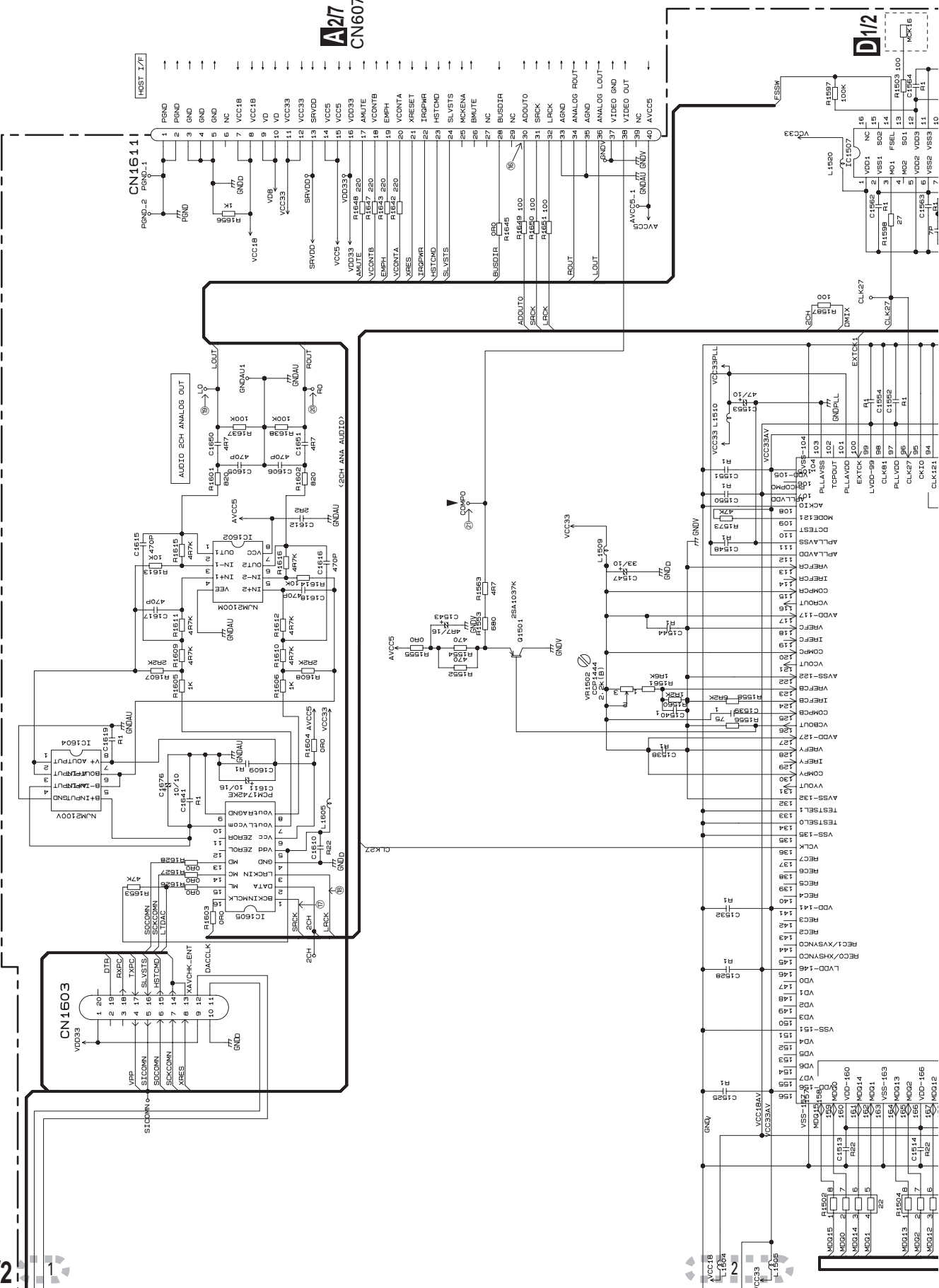
D-a 2/2

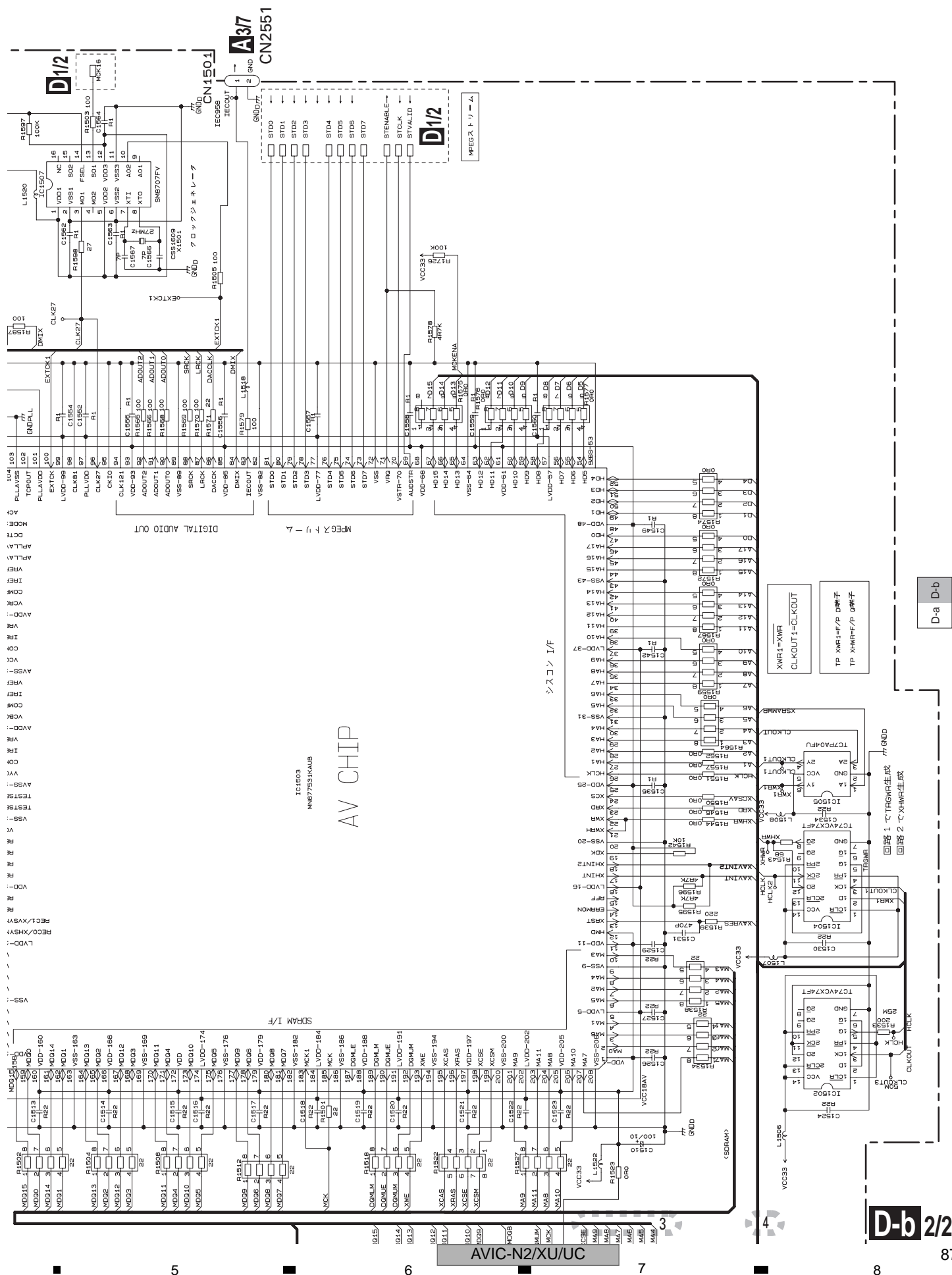


D-b 2/2

D-a D-b

D-a 2/2

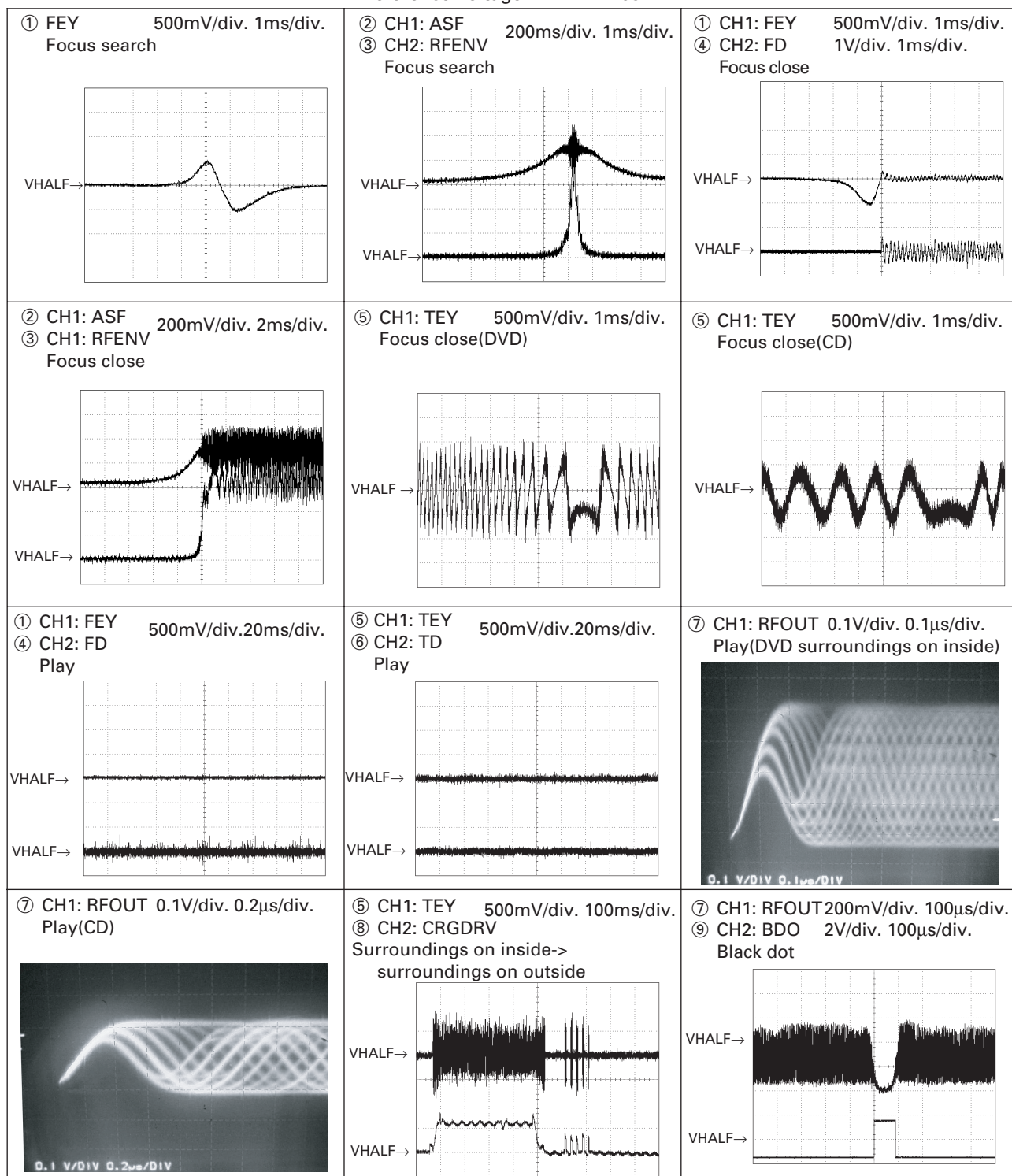
[illegible]

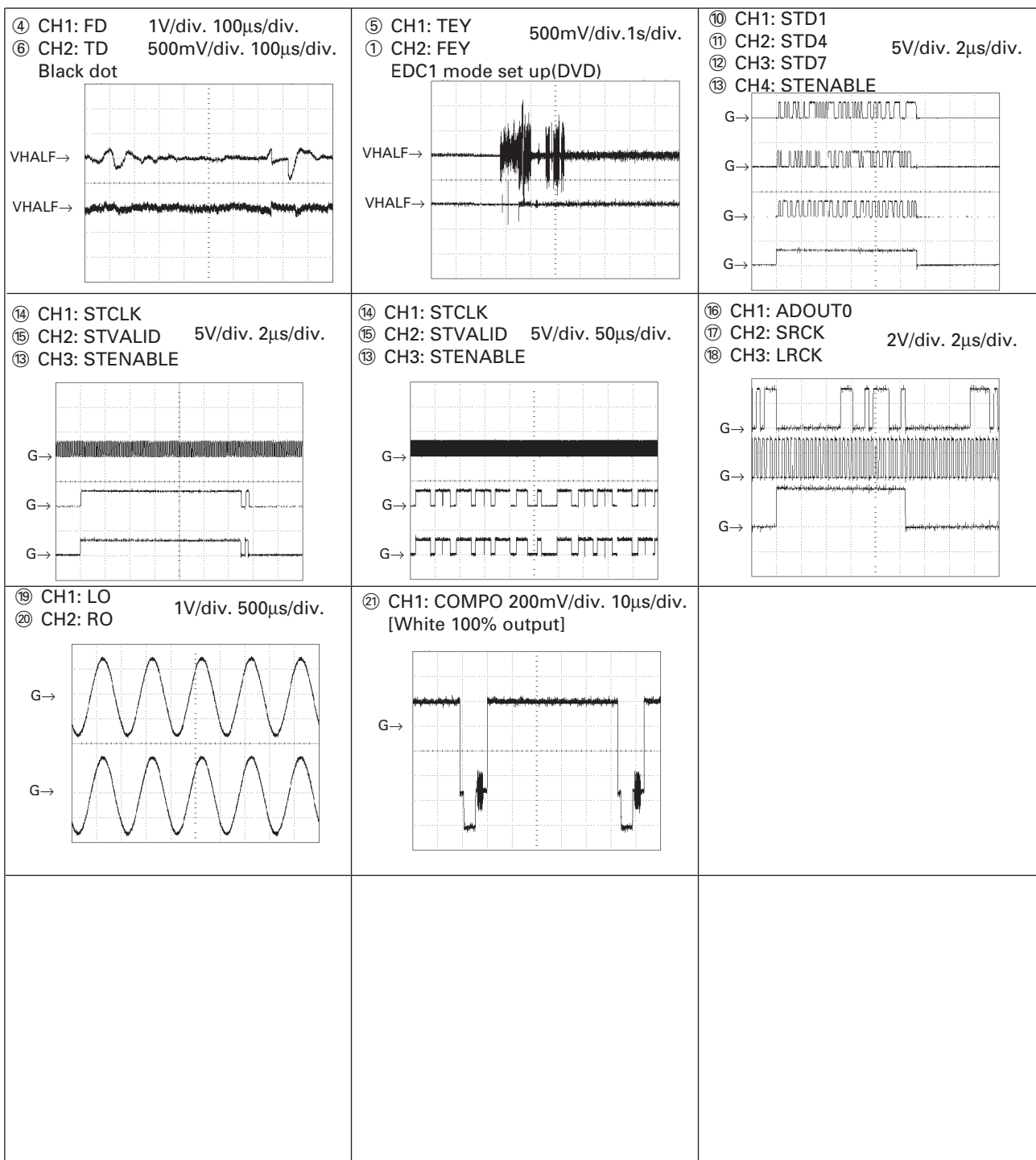


Waveforms

Note:1. The encircled number denote measuring pointes in the circuit diagram.

2. Reference voltage VHALF : 1.65V

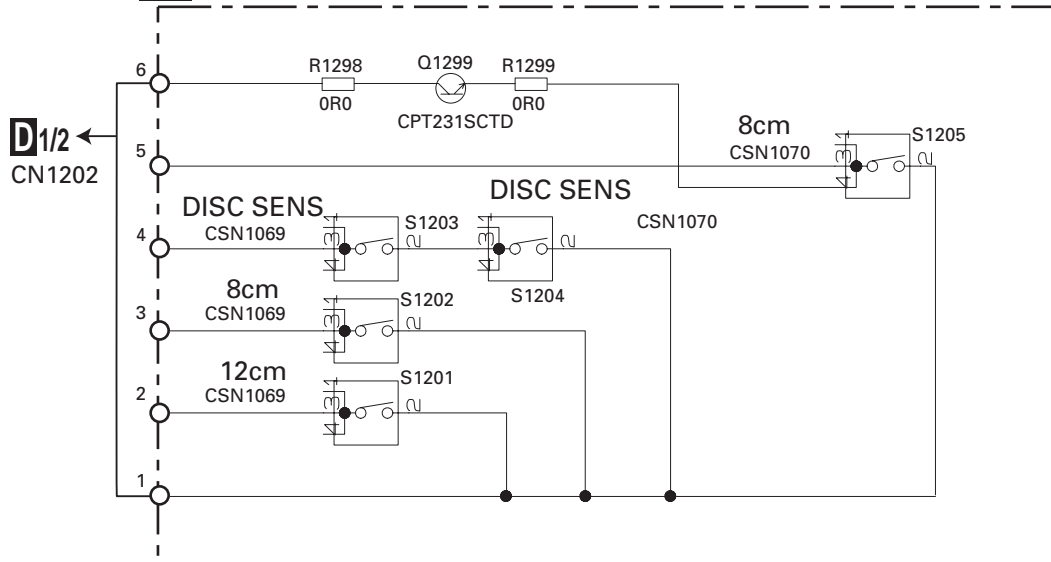




3.14 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

A

E COMPOUND UNIT(A)



B

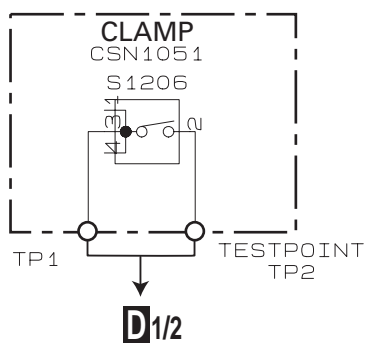
C

D

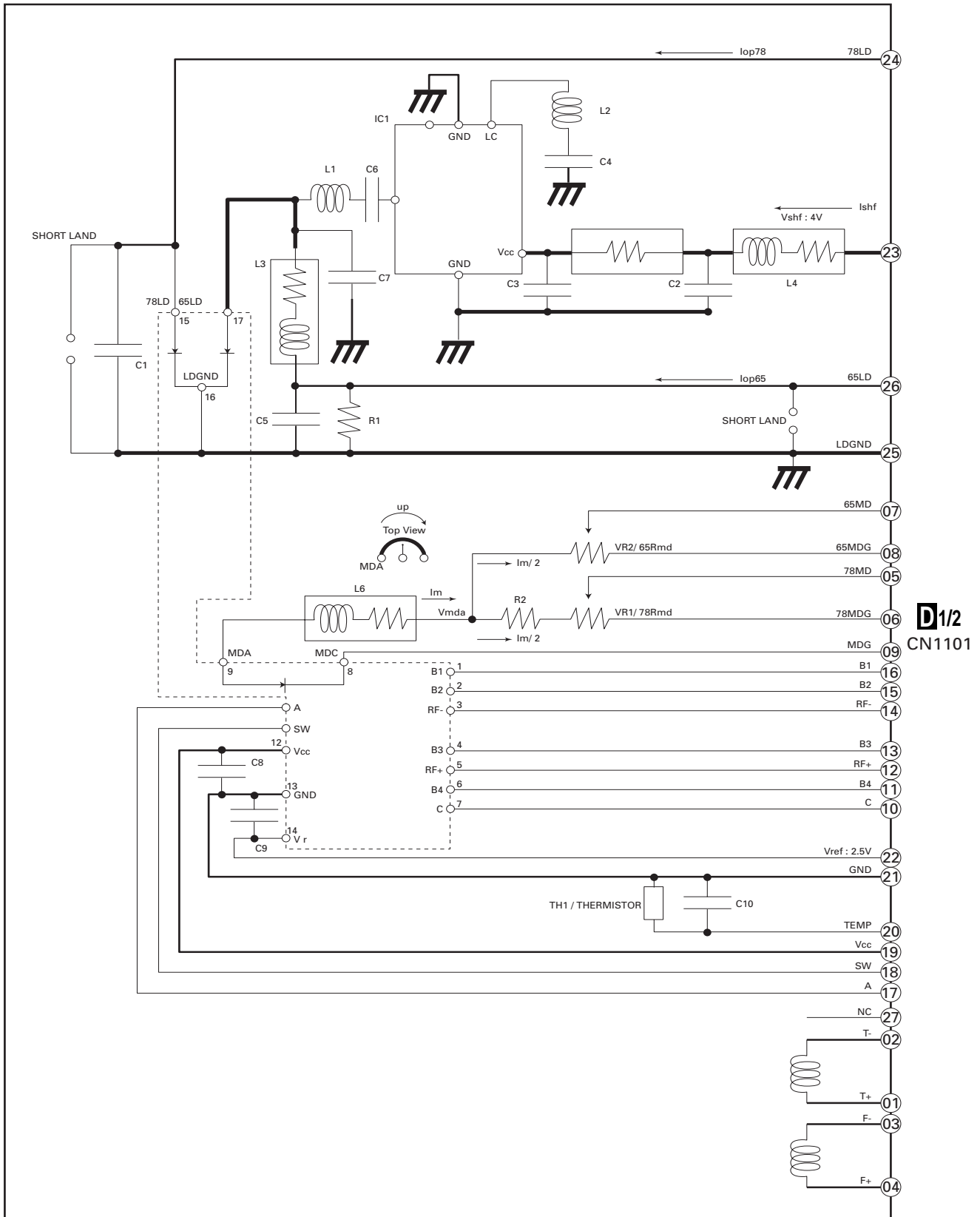
E

F

F COMPOUND UNIT(B)

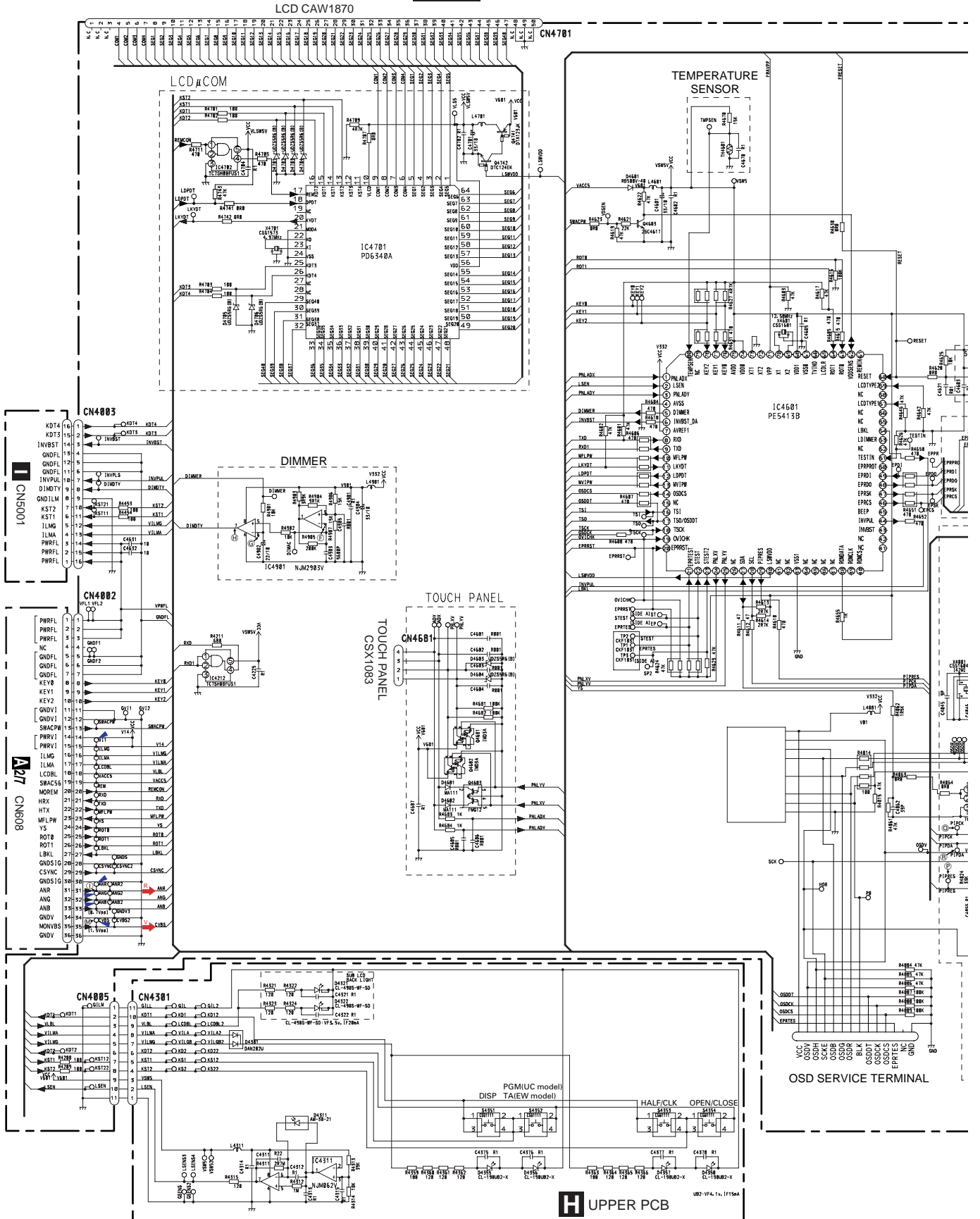


3.15 PU UNIT(REFERENCE)



3.16 MONITOR PCB AND UPPER PCB(GUIDE PAGE)

G-a



G H

AVIC-N2/XU/UC

A

B



D

E

F

V → Composite Video Signal

R → RGB Signal

A B C D E F

G-b

G-a G-b

G-a

1

2

3

4

LCD CAW1870

CN4701

CN4003

CN4002

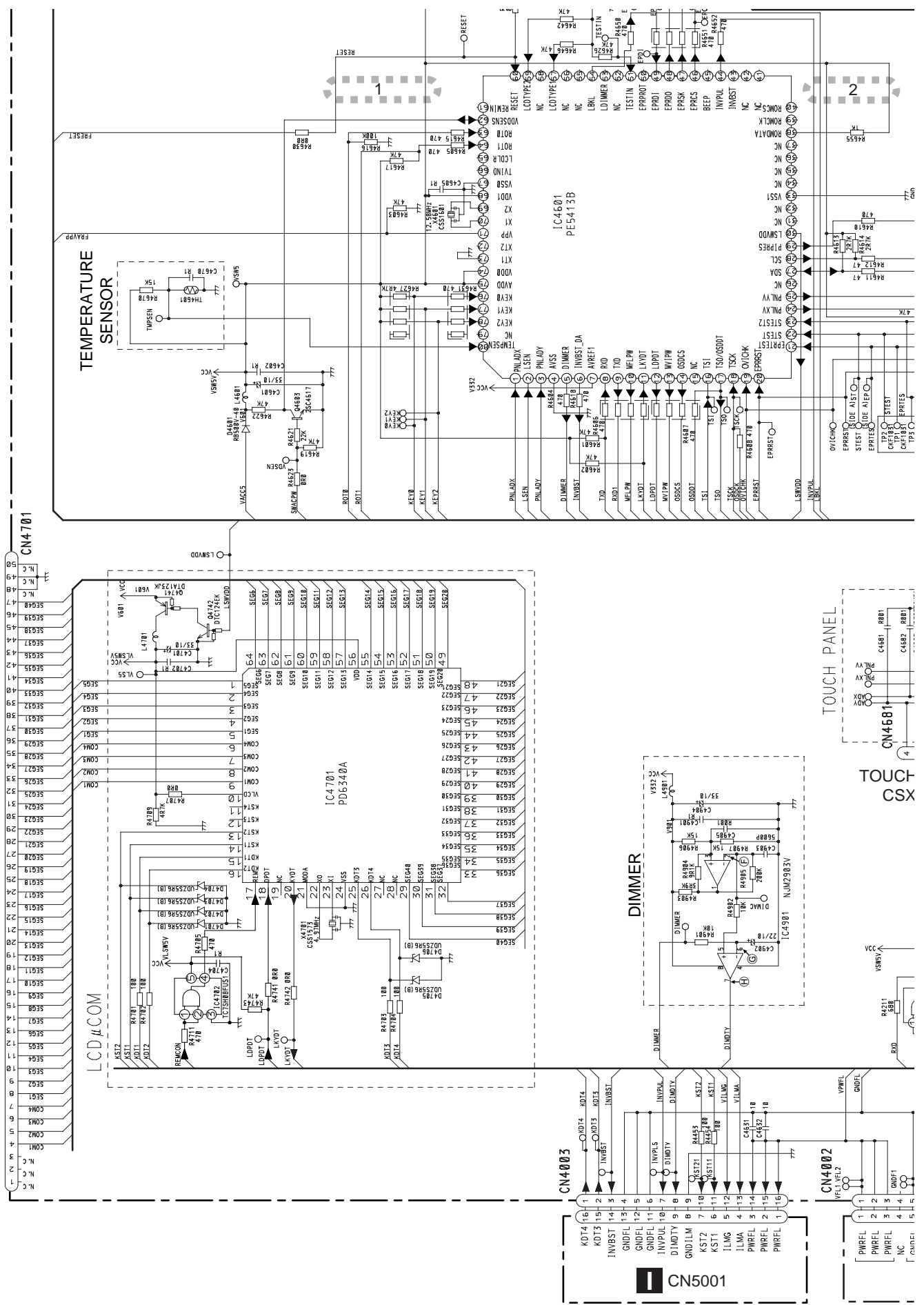
CN5001

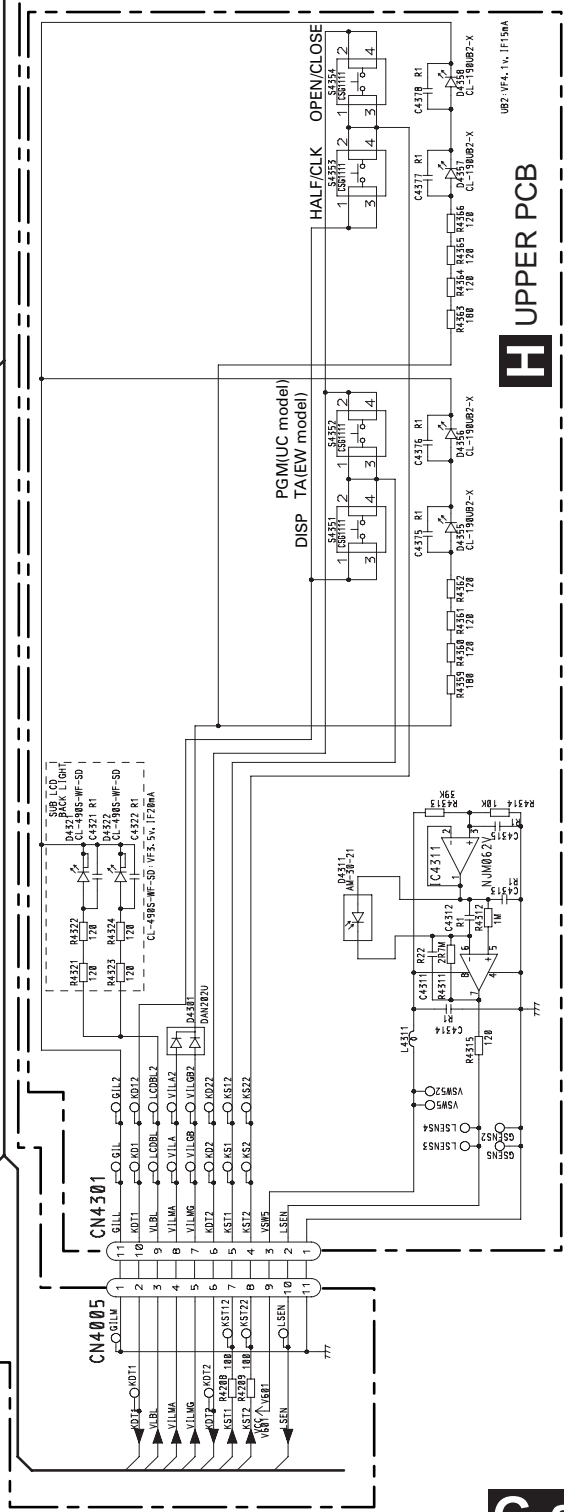
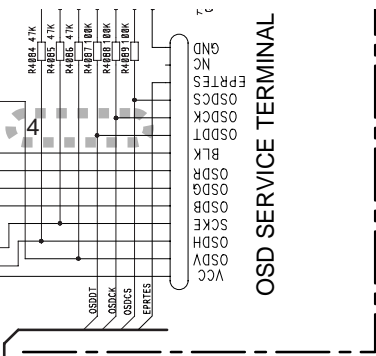
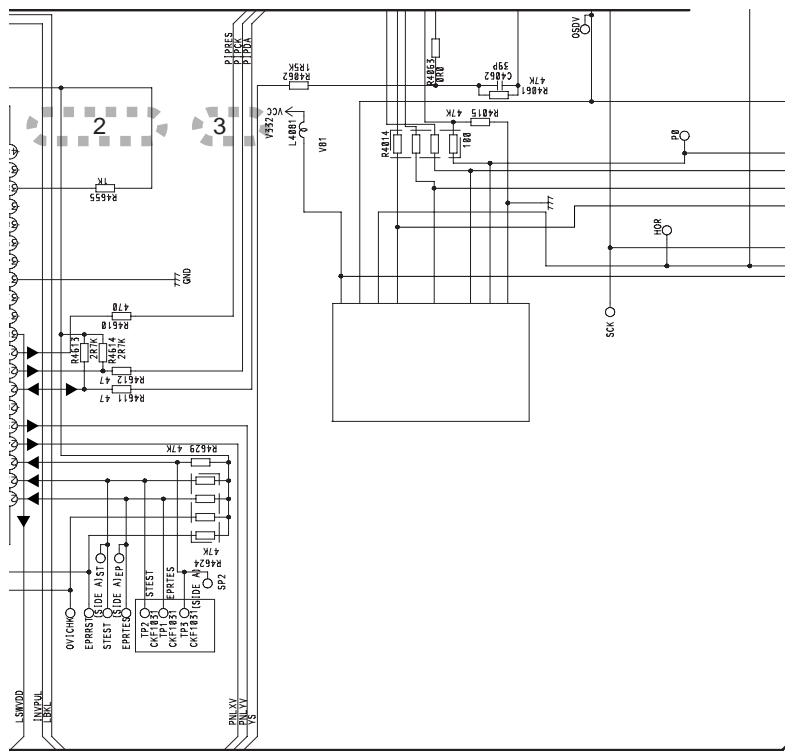
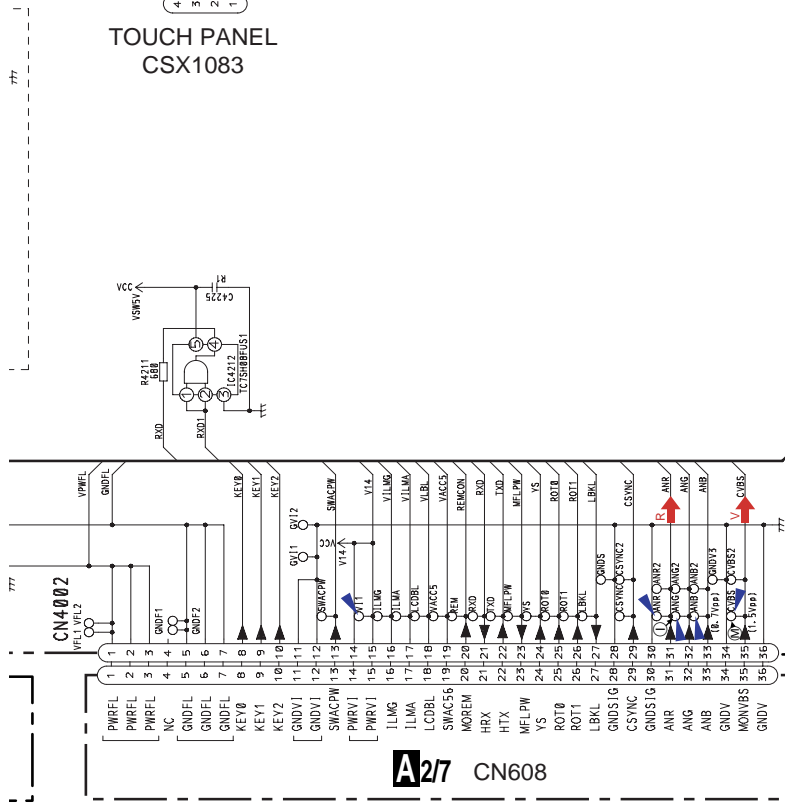
1

2

3

4





G-b

H UPPER PCB

G-a G-b

G-a H

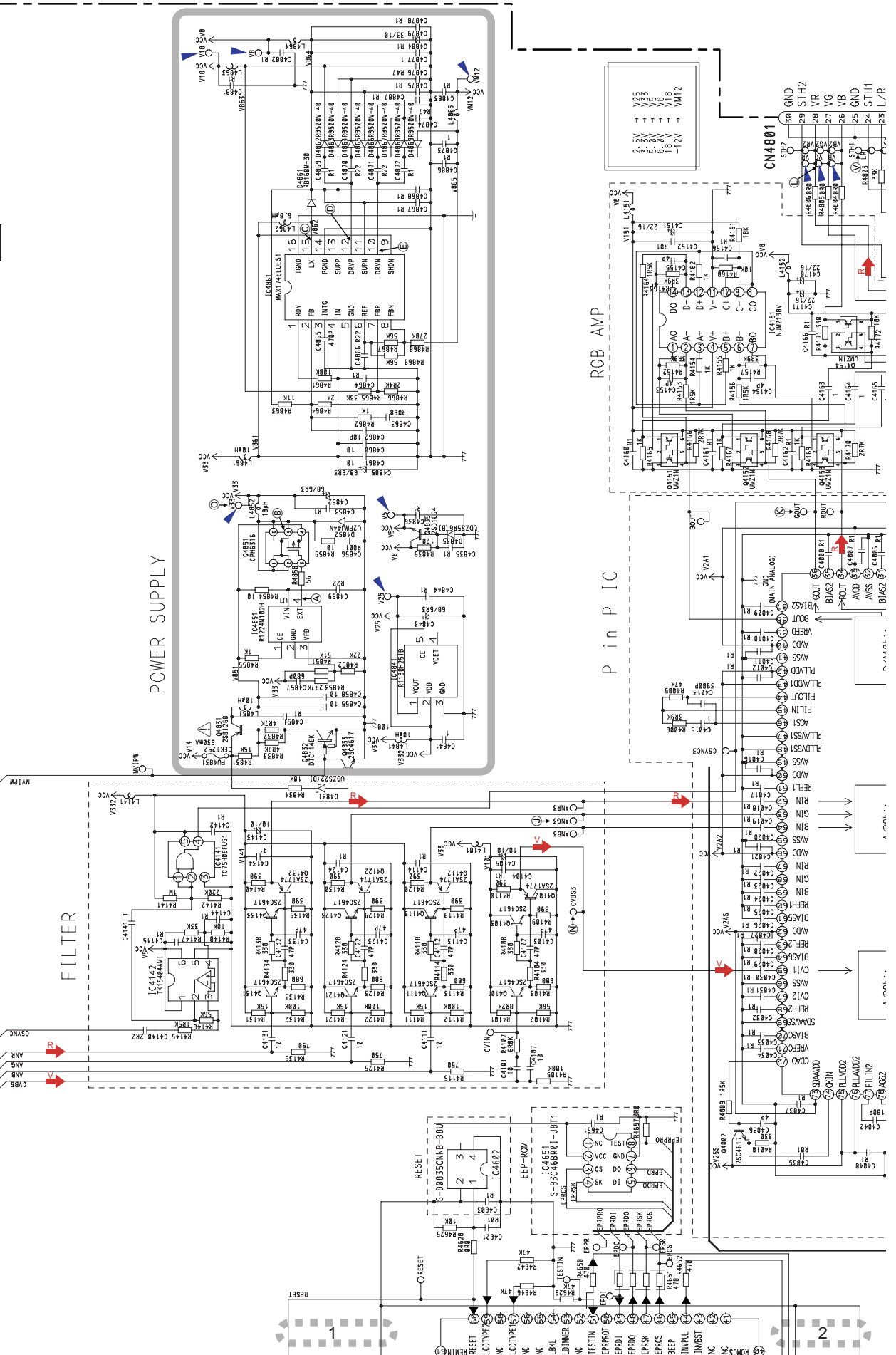
MONITOR PCB



G-a G-b



AVIC-N2/XU/UC



A

B

C

D

E

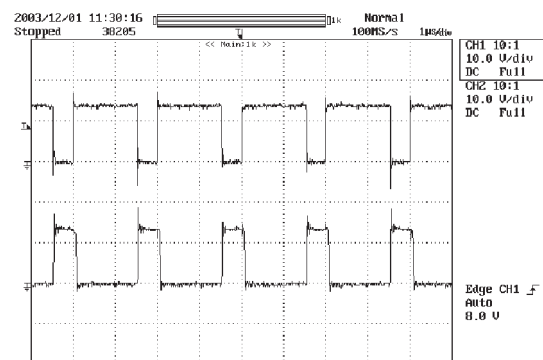
F

Waveforms

The encircled number denote measuring pointes in the circuit diagram.

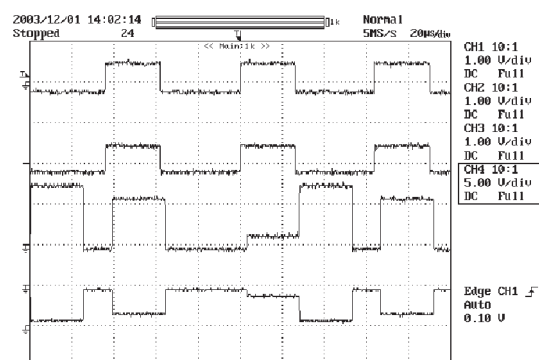
A

- Ⓐ CH1:IC4851 Pin 4
Ⓑ CH2:Q4851 Pin 5



B

- INPUT : Color bar signal
Ⓘ CH1:ANG Ⓚ CH3:GOUT
Ⓢ CH2:ANG3 Ⓛ CH4:VG



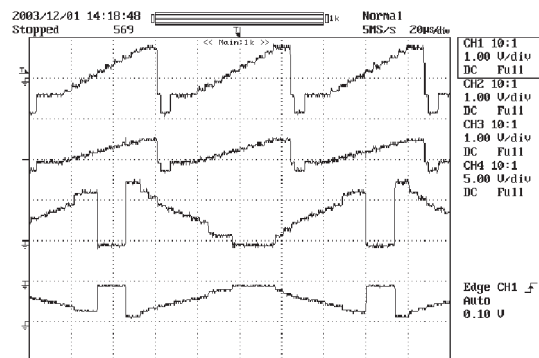
C

- Ⓒ CH1:IC4861 Pin 15 ⓔ CH3:IC4861 Pin 10
Ⓓ CH2:IC4861 Pin 12



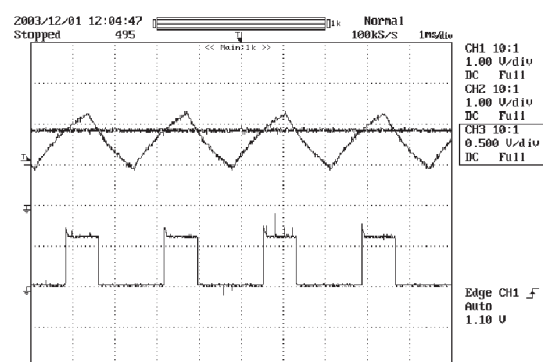
D

- INPUT : 10STEP VTR IN
Ⓜ CH1:CVBS Ⓚ CH3:GOUT
Ⓝ CH2:CVBS3 Ⓛ CH4:VG



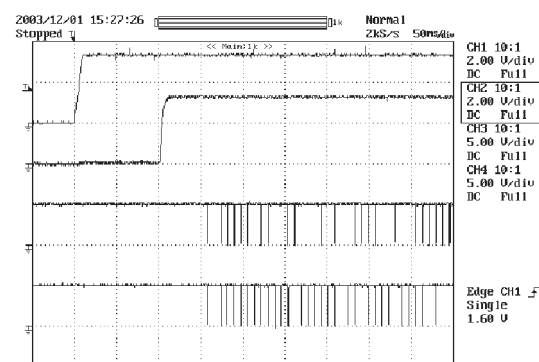
E

- Ⓕ CH1:IC4901 Pin 2 Ⓜ CH3:IC4901 Pin 7
Ⓖ CH2:IC4901 Pin 6



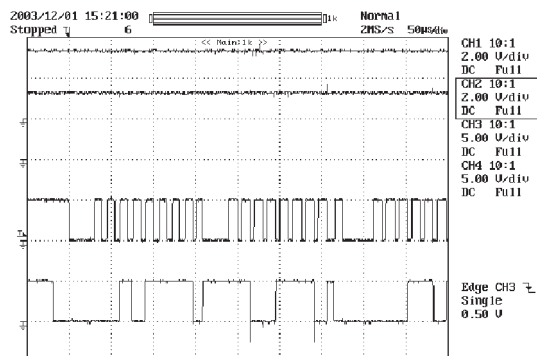
F

- Ⓖ CH1:V33 Ⓞ CH3:PIPCK
Ⓗ CH2:PIPRES Ⓡ CH4:PIPDA



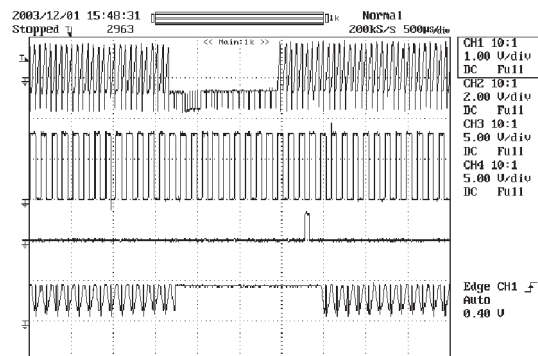
Ⓞ CH1:V33
Ⓟ CH2:PIPRES

Ⓞ CH3:PIPCK
Ⓡ CH4:PIPPA



Ⓜ CH1:CVBS
Ⓤ CH2:CX

Ⓜ CH3:STV1
Ⓦ CH4:VG



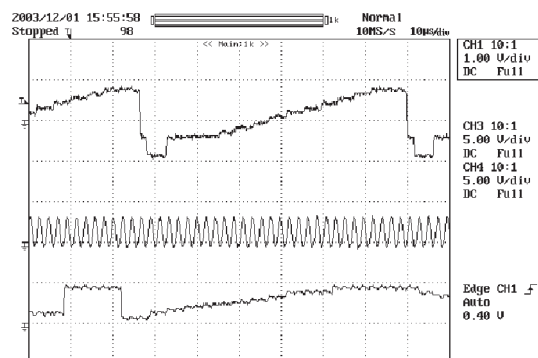
Ⓜ CH1:CVBS
Ⓢ CH2:POL

Ⓣ CH3:VCOM
Ⓦ CH4:VG



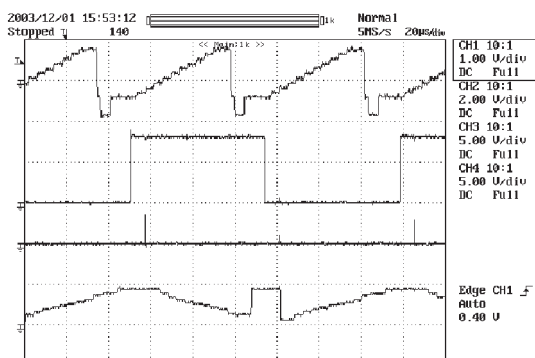
Ⓜ CH1:CVBS

ⓧ CH3:CPH
Ⓦ CH4:VG

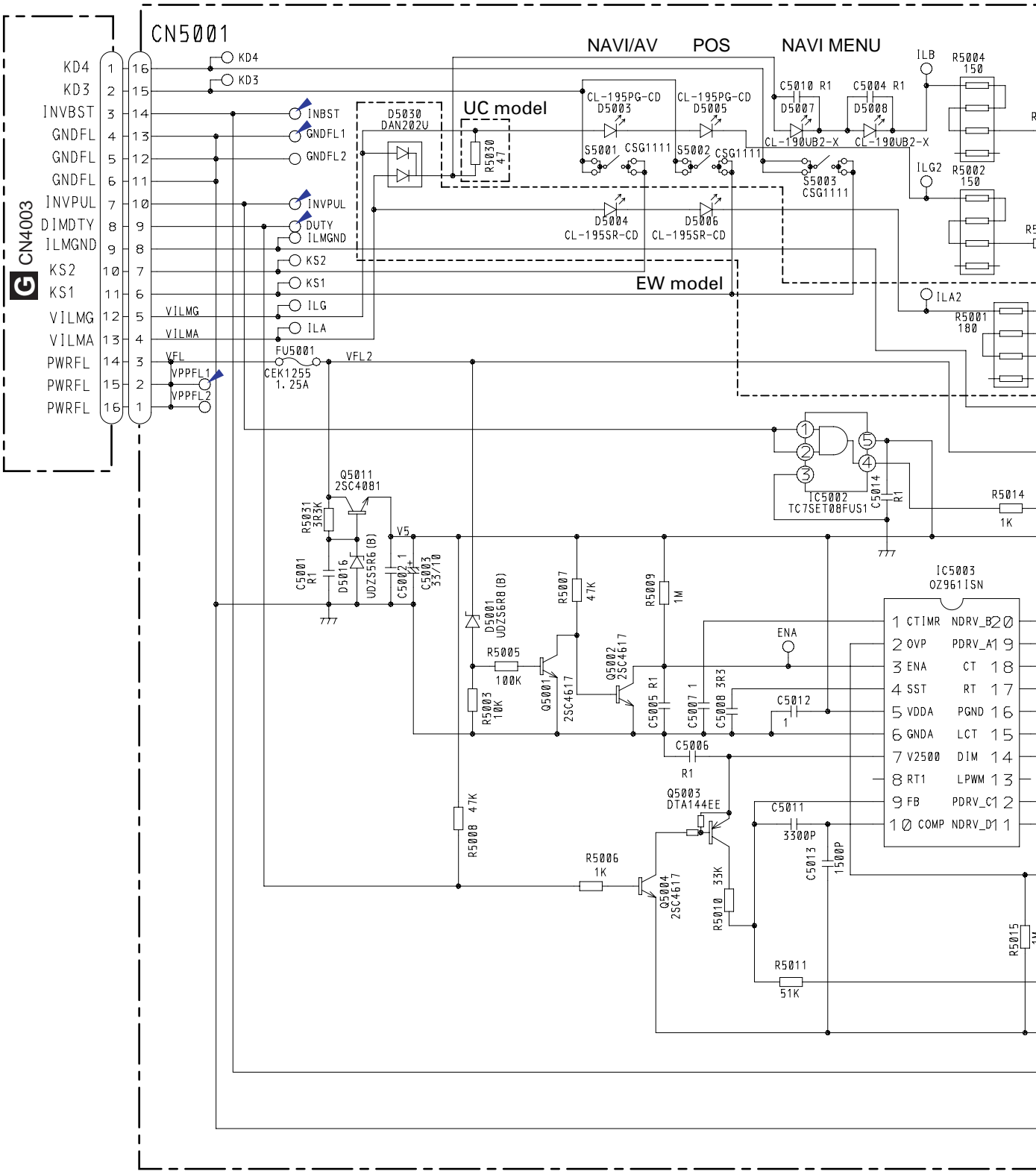


Ⓜ CH1:CVBS
Ⓤ CH2:CX

Ⓦ CH3:STH1
Ⓦ CH4:VG

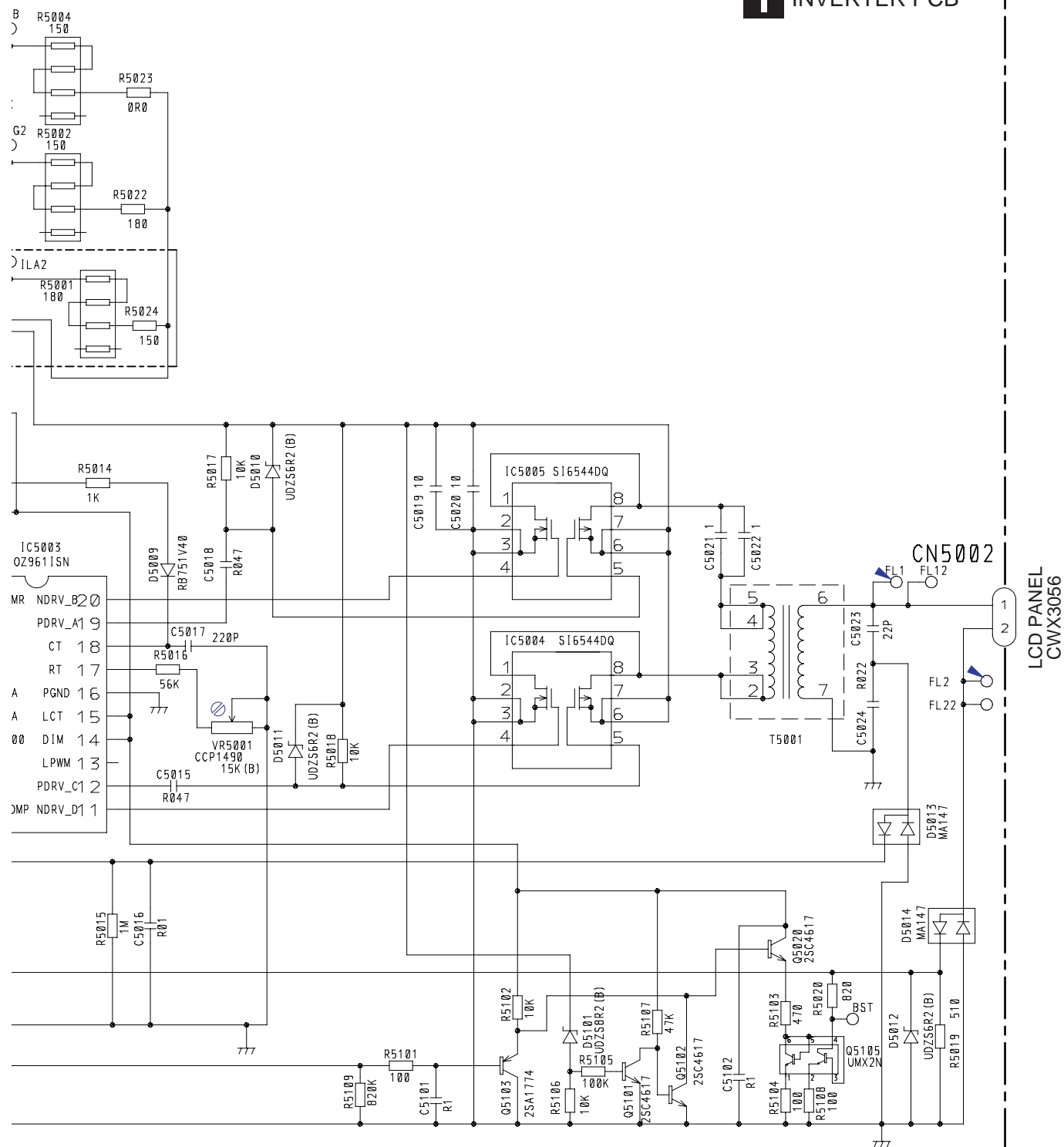


3.17 INVERTER PCB



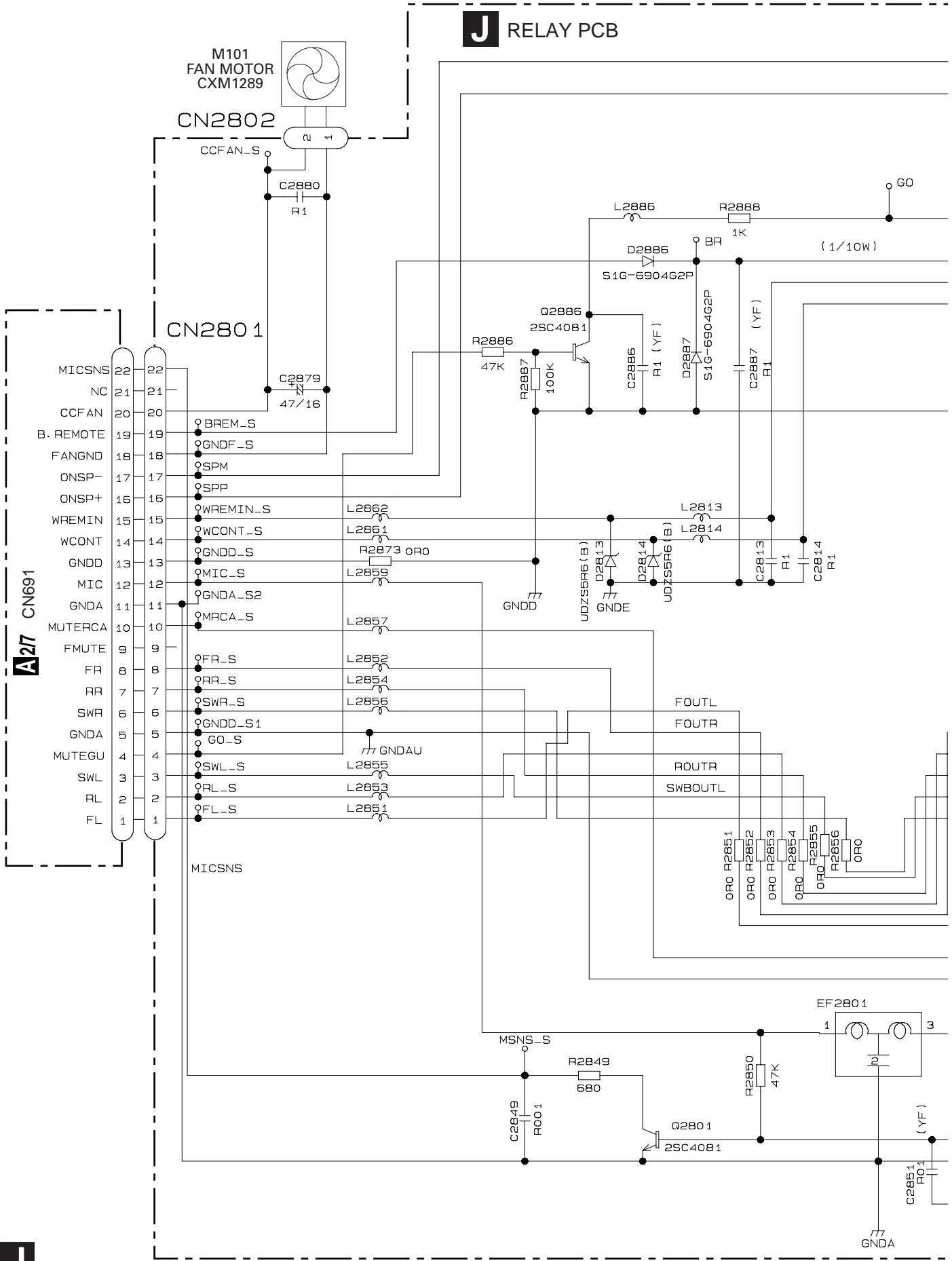
MONITOR UNIT
Consists of
MONITOR PCB
UPPER PCB
INVERTER PCB

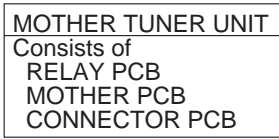
INVERTER PCB



3.18 RELAY PCB

J RELAY PCB



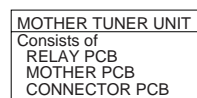


4

F



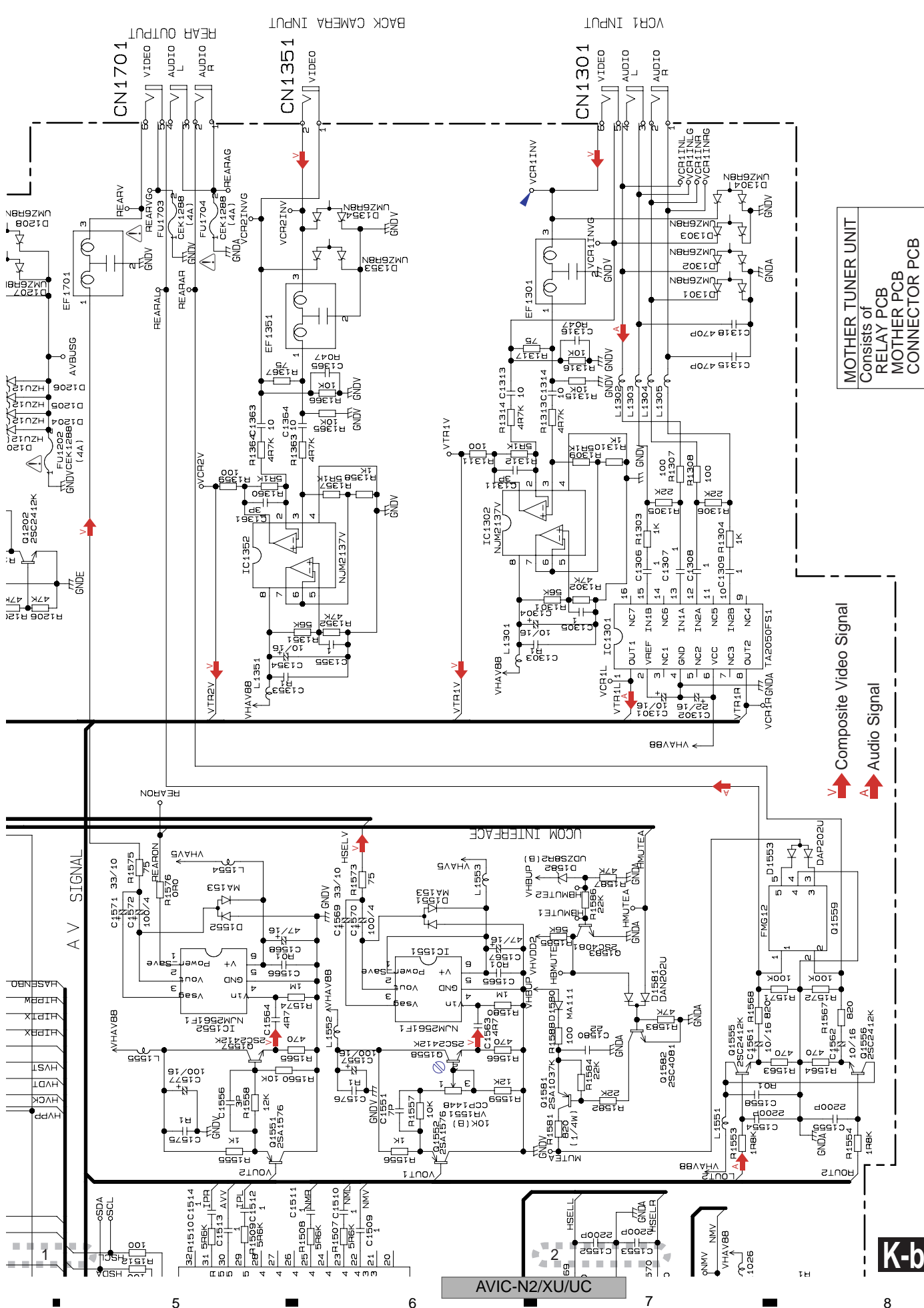
K^{1/2} MOTHER PCB (H/A SYSTEM)



4



A ■
E ■
C ■
D ■
E ■
E ■



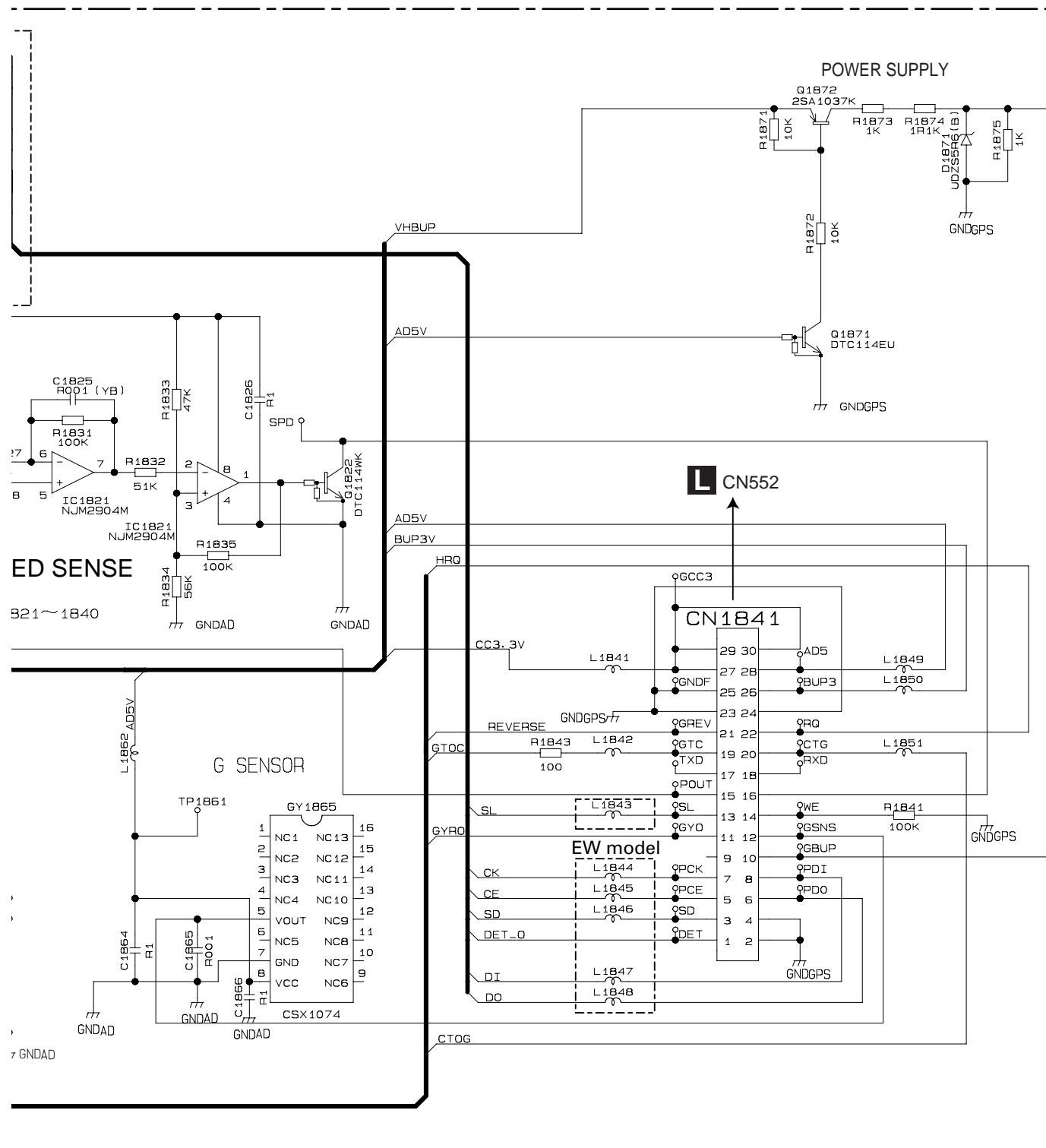
4



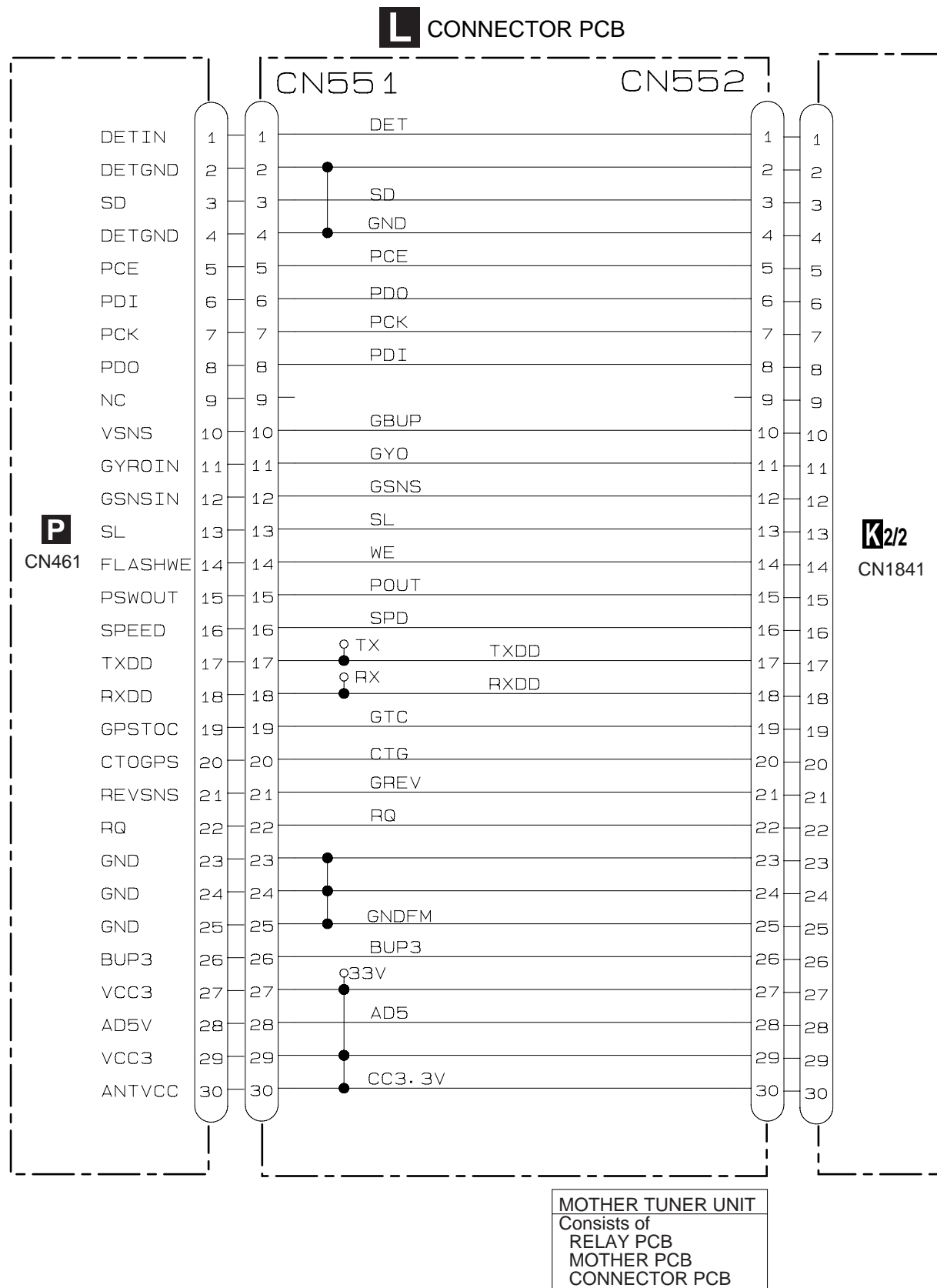
903



K2/2 MOTHER PCB (SENSOR)



3.21 CONNECTOR PCB



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A

B

C

D

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AVIC-N2/XU/UC

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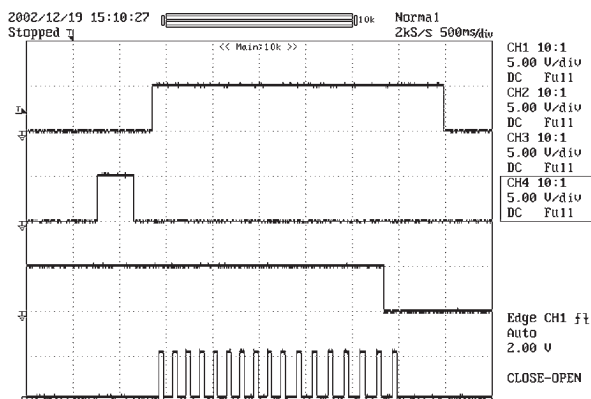
■

Waveforms

The encircled number denote measuring points in the circuit diagram.

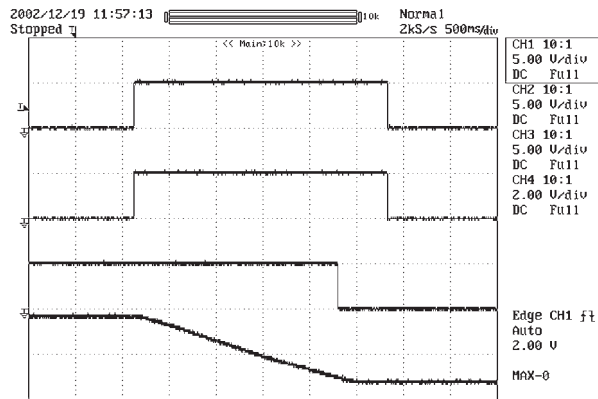
• CLOSE -> OPEN

- ① CH1:MTR2 ② CH2:MTRSEL
③ CH3:LIFTSW ④ CH4:LFTPLS



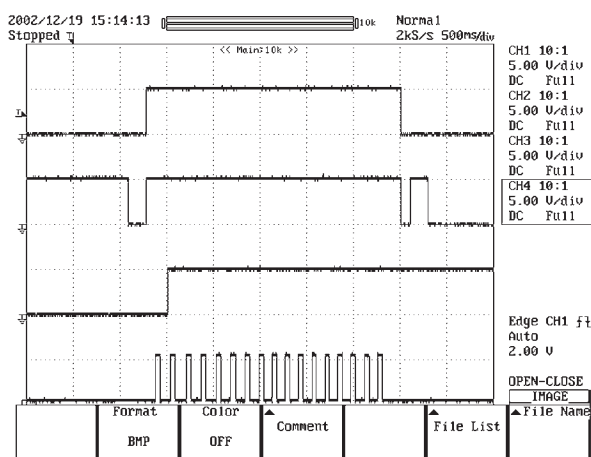
• MAX -> Deg.0 DOWN

- ⑤ CH1:MTR1 ② CH2:MTRSEL
⑥ CH3:ANGLSW ⑦ CH4:ANGLIN



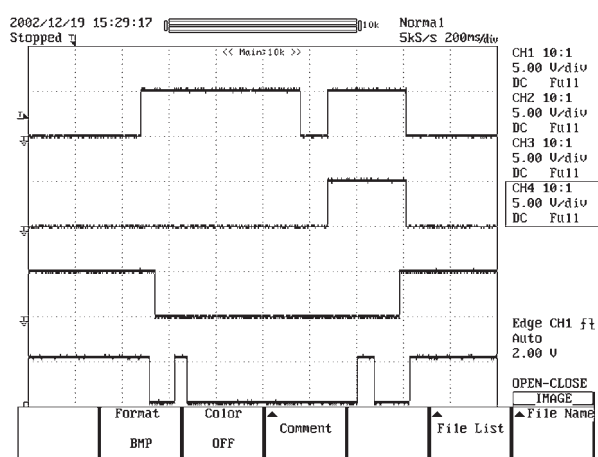
• OPEN -> CLOSE

- ① CH1:MTR2 ② CH2:MTRSEL
③ CH3:LIFTSW ④ CH4:LFTPLS



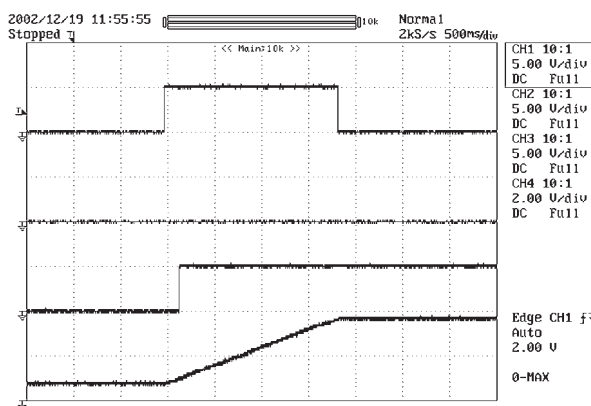
• Set back open -> Set

- ① CH1:MTR2 ⑧ CH2:MTRS
③ CH3:LIFTSW ④ CH4:LFTPLS



• 0->MAX

- ⑤ CH1:MTR1 ② CH2:MTRSEL
⑥ CH3:ANGLSW ⑦ CH4:ANGLIN



A

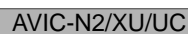
B

C

D

E

F





A

B

C

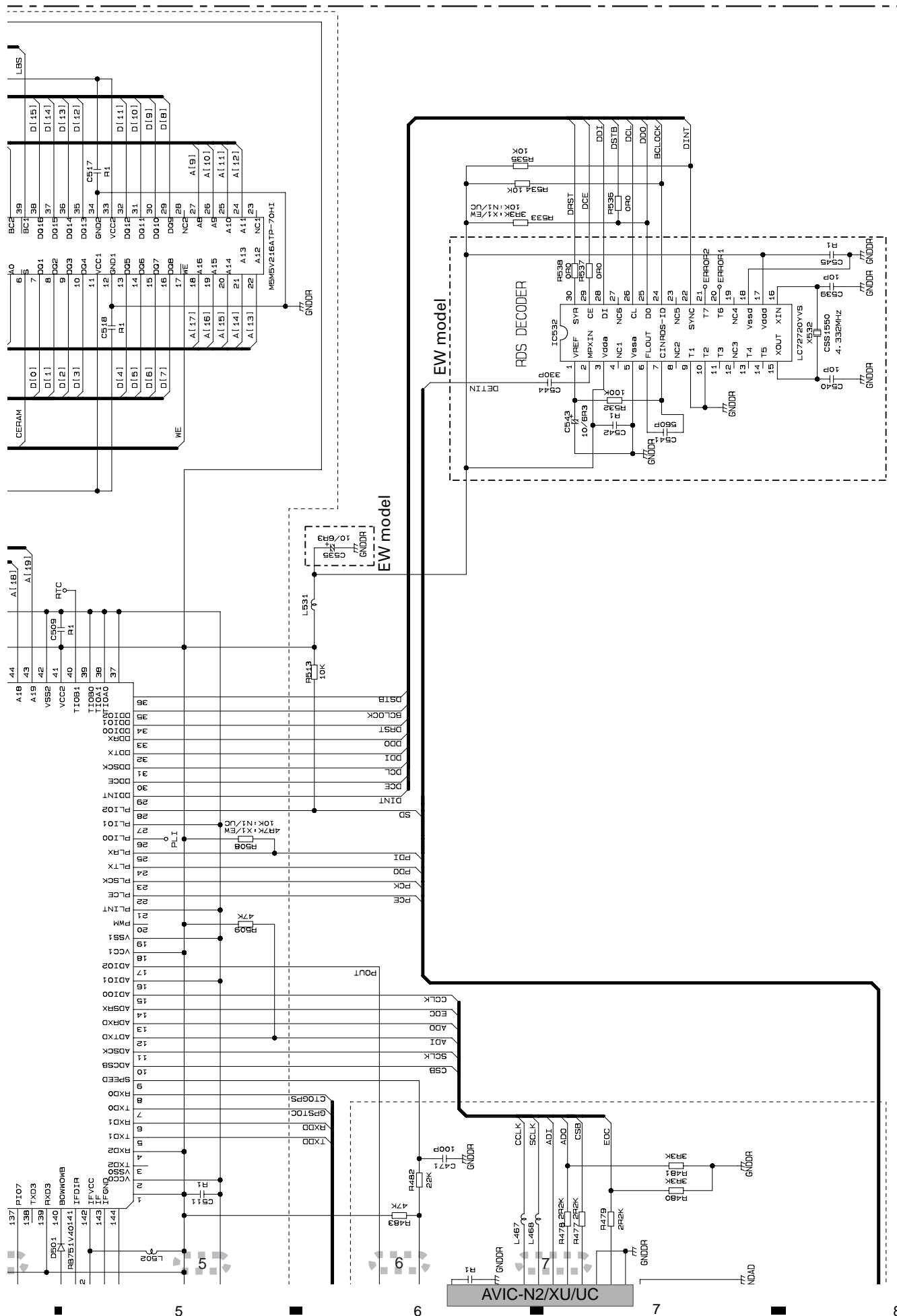
D

E

F

| P-a | P-b |
|-----|-----|
|-----|-----|

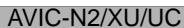
P-a

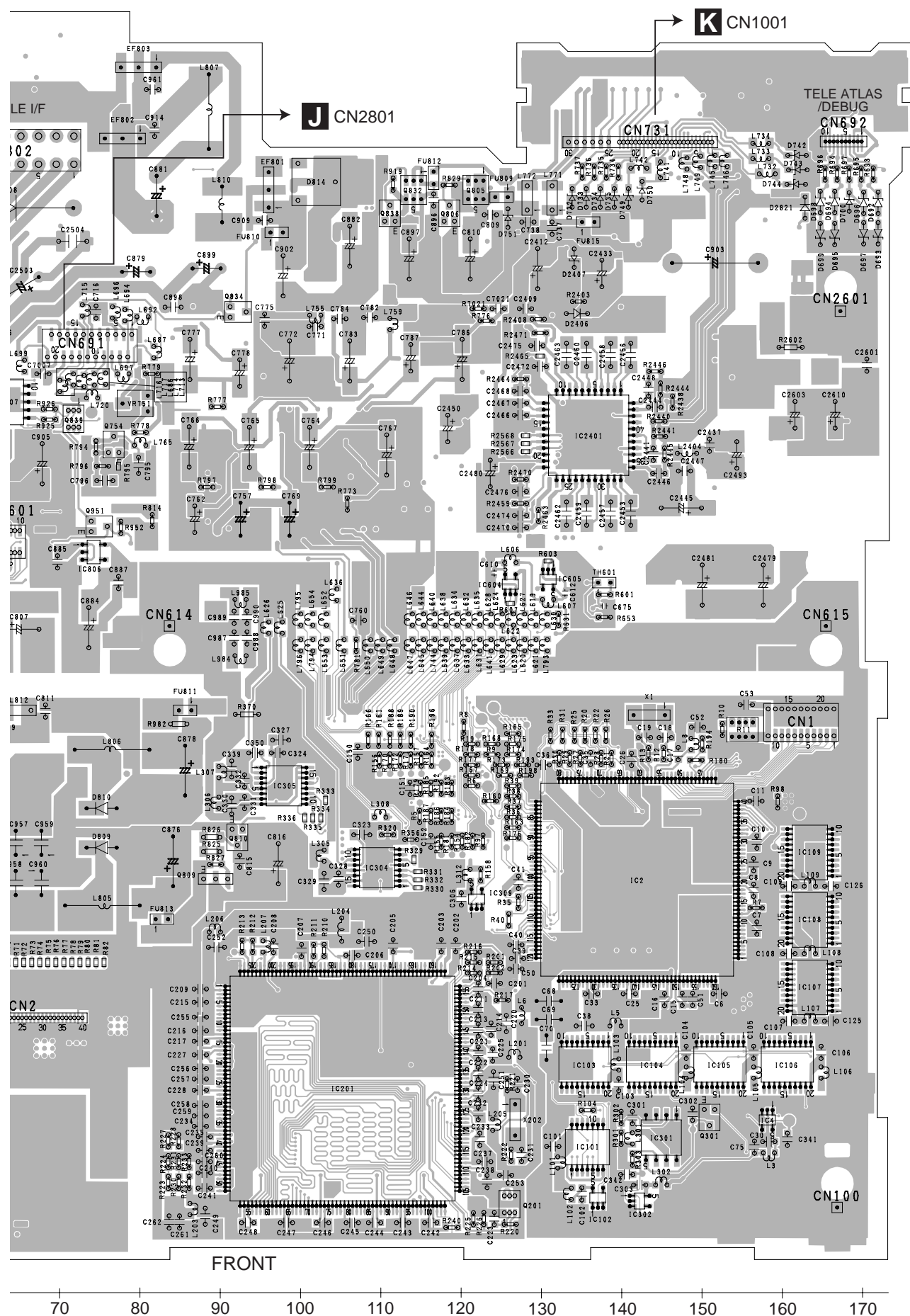


4.1 CC UNIT

1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

A diagram of a P.C. board with various components labeled. A 'Connector' is on the left. A 'Capacitor' is in the center. A 'Chip Part' is on the right. The board is labeled 'P.C. Board' at the bottom. The top edge is labeled 'SIDE A' and the bottom edge is labeled 'SIDE B'.





SIDE A

A
B
C
D
E
F

A

A

A CC UNIT

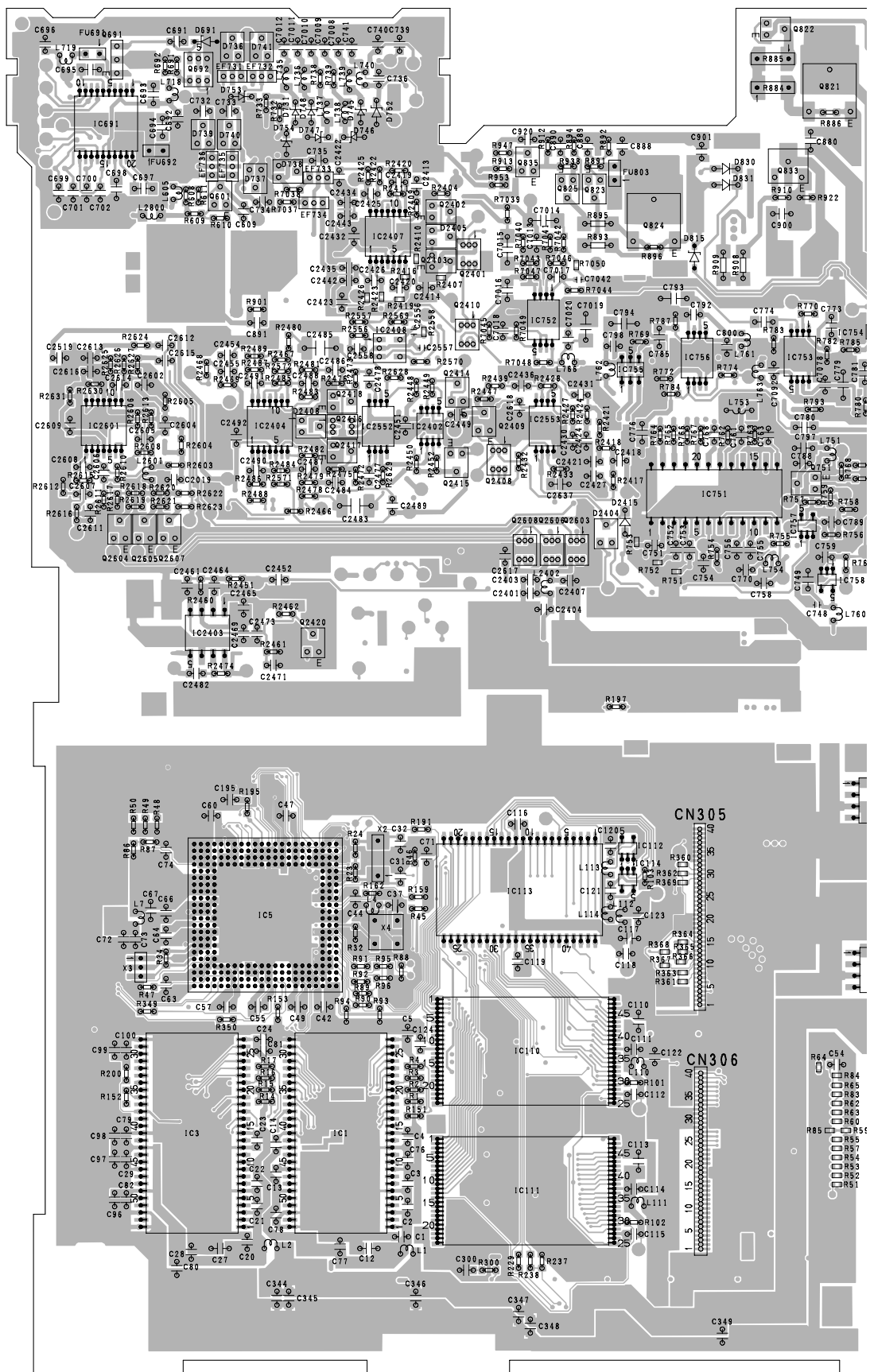
B

C

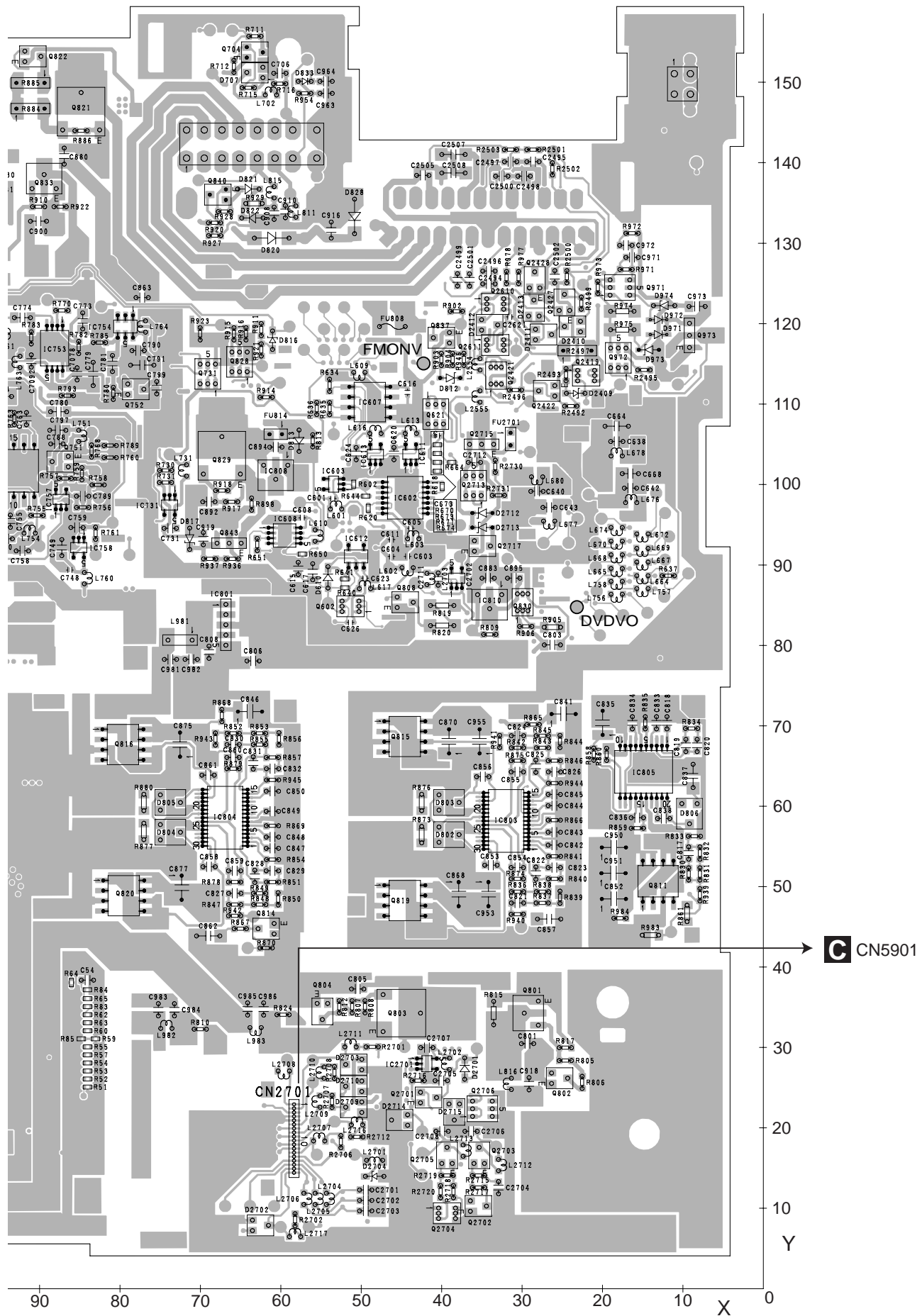
D

E

F



SIDE B

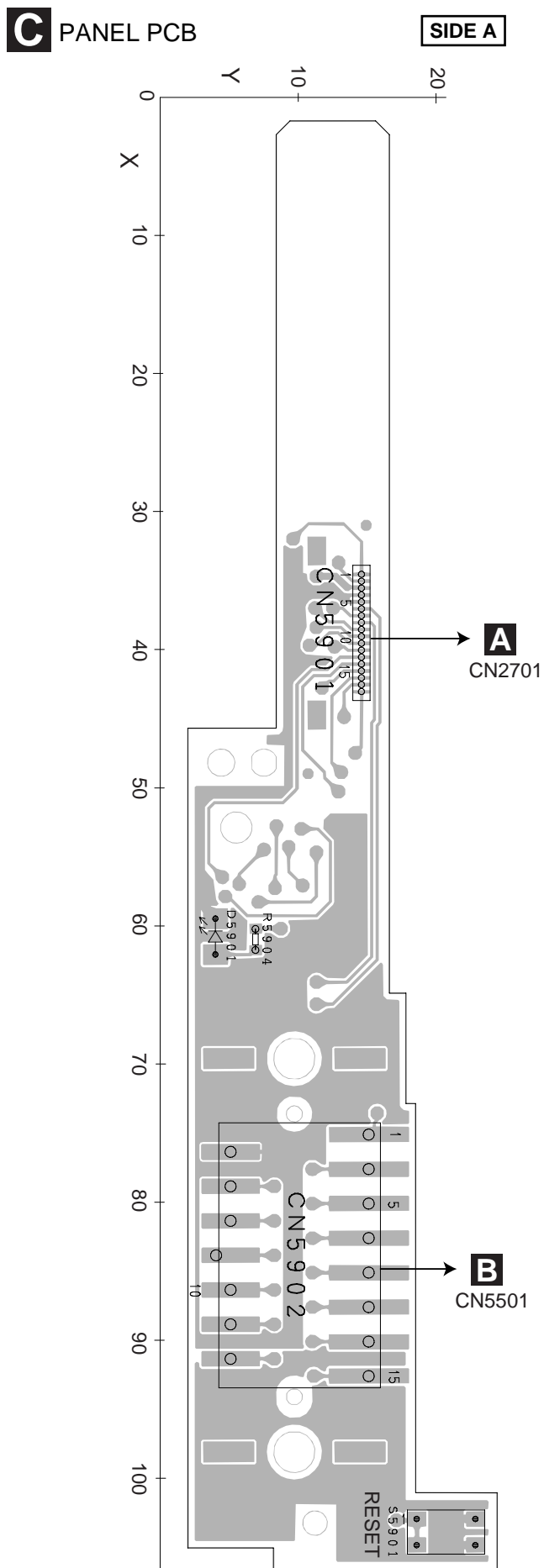


4

126

4

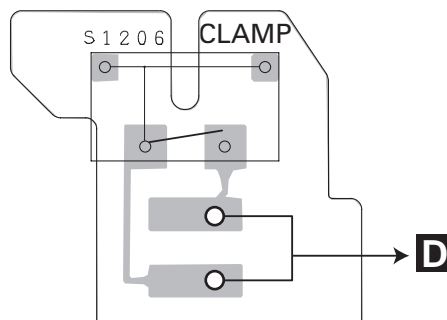
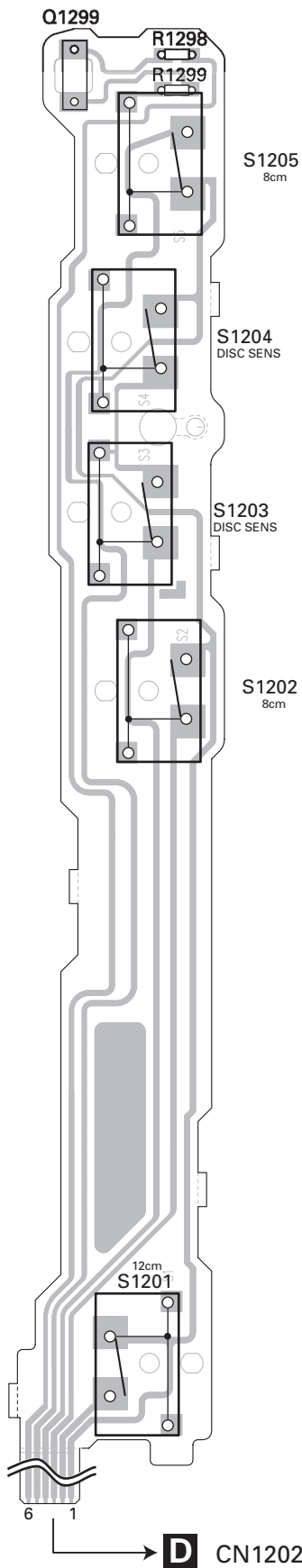
4.3 PANEL PCB



4.5 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

E COMPOUND UNIT(A)

F COMPOUND UNIT(B)



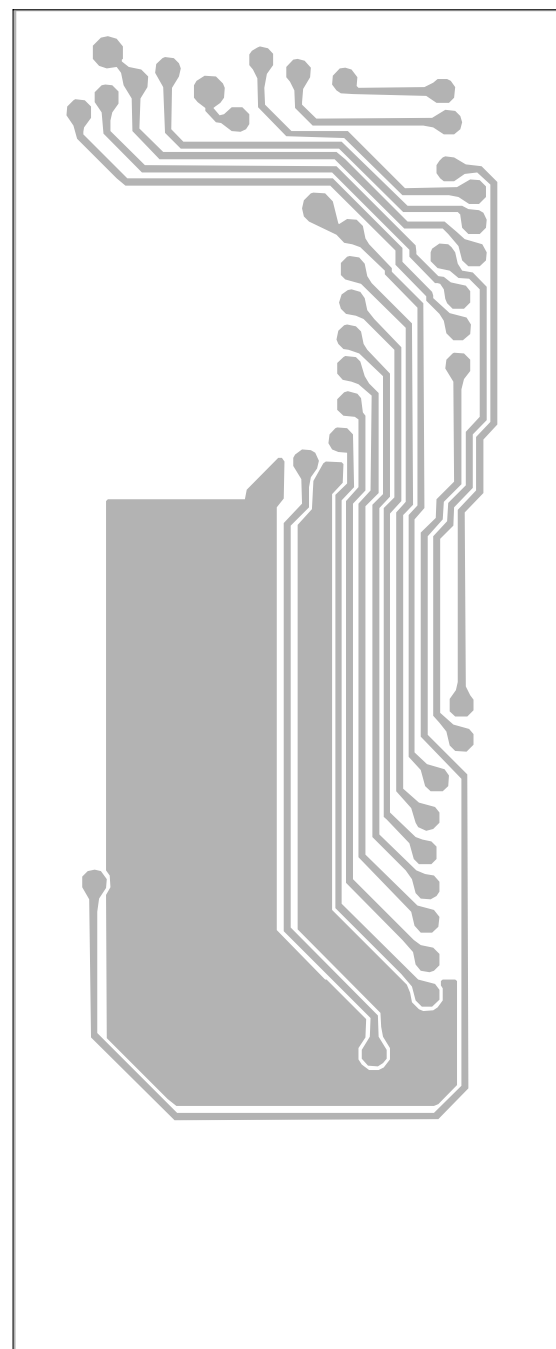
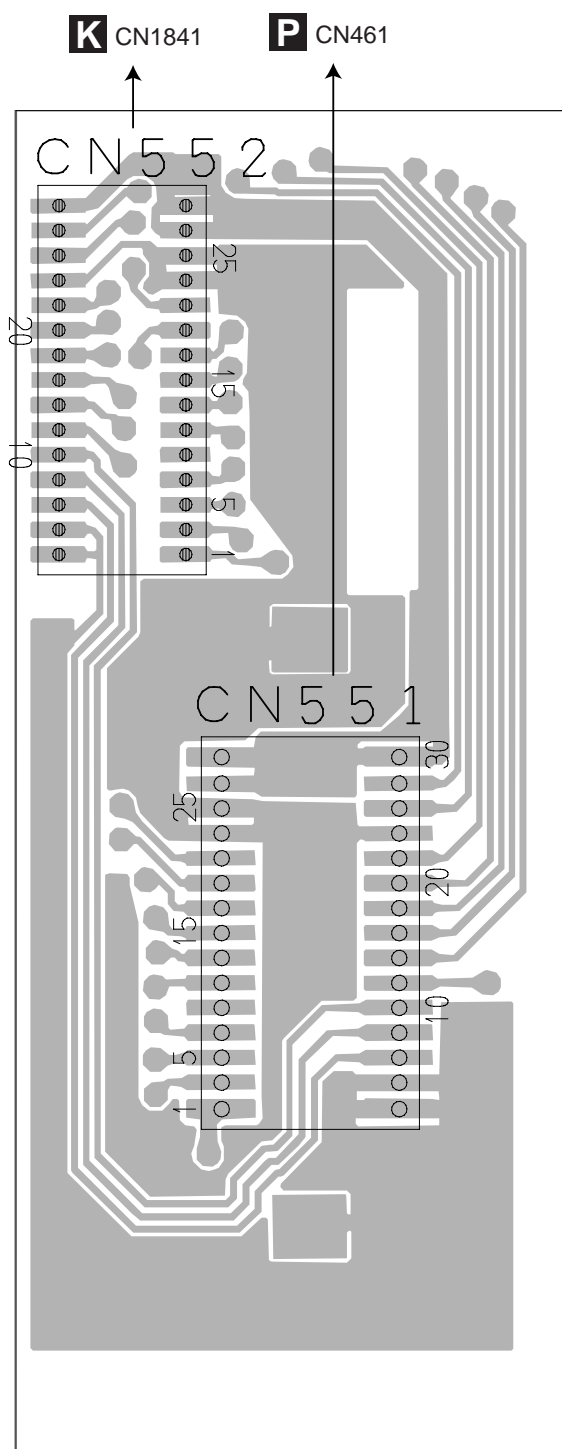
4.6 CONNECTOR PCB

L CONNECTOR PCB

SIDE A

L CONNECTOR PCB

SIDE B



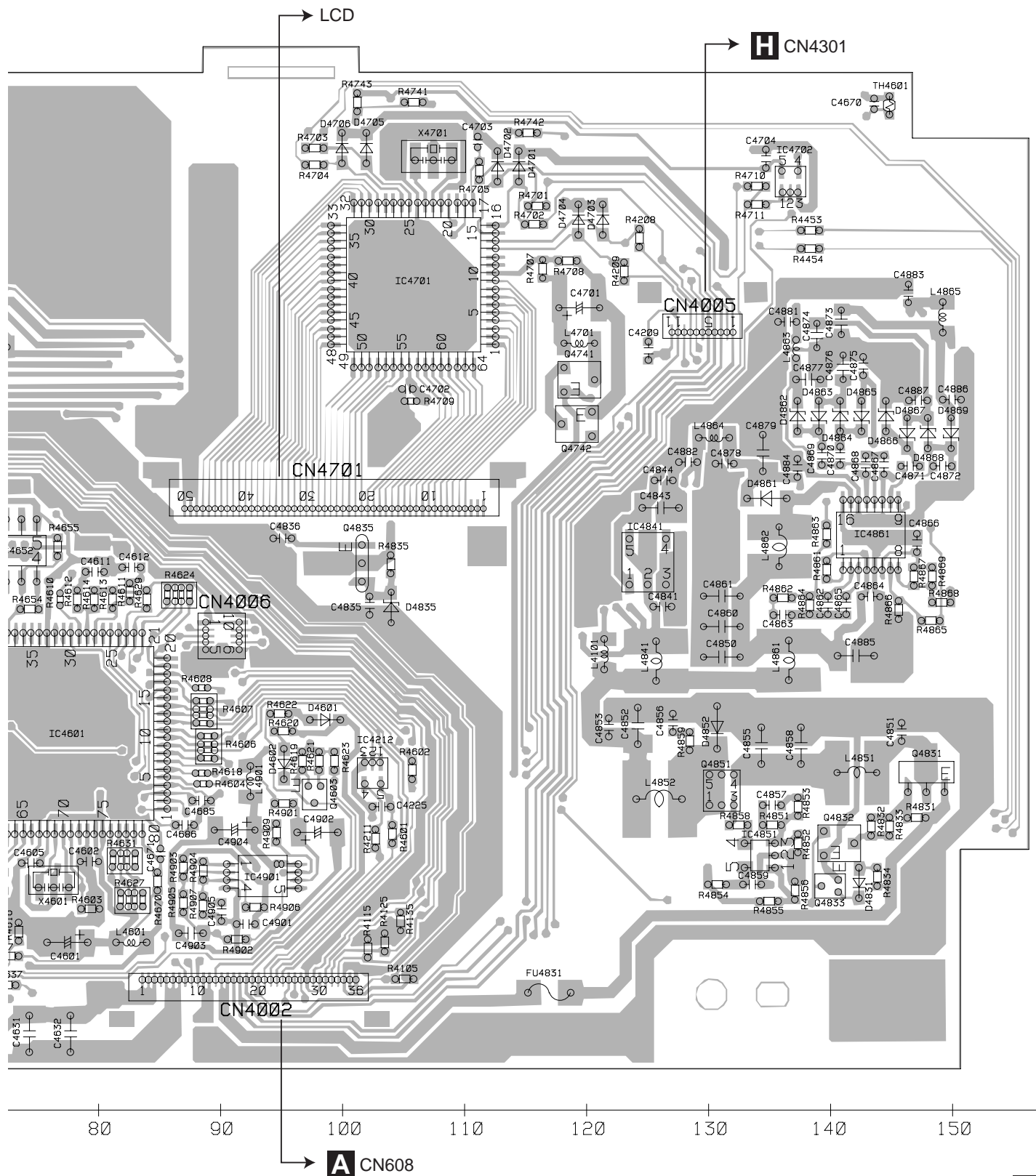
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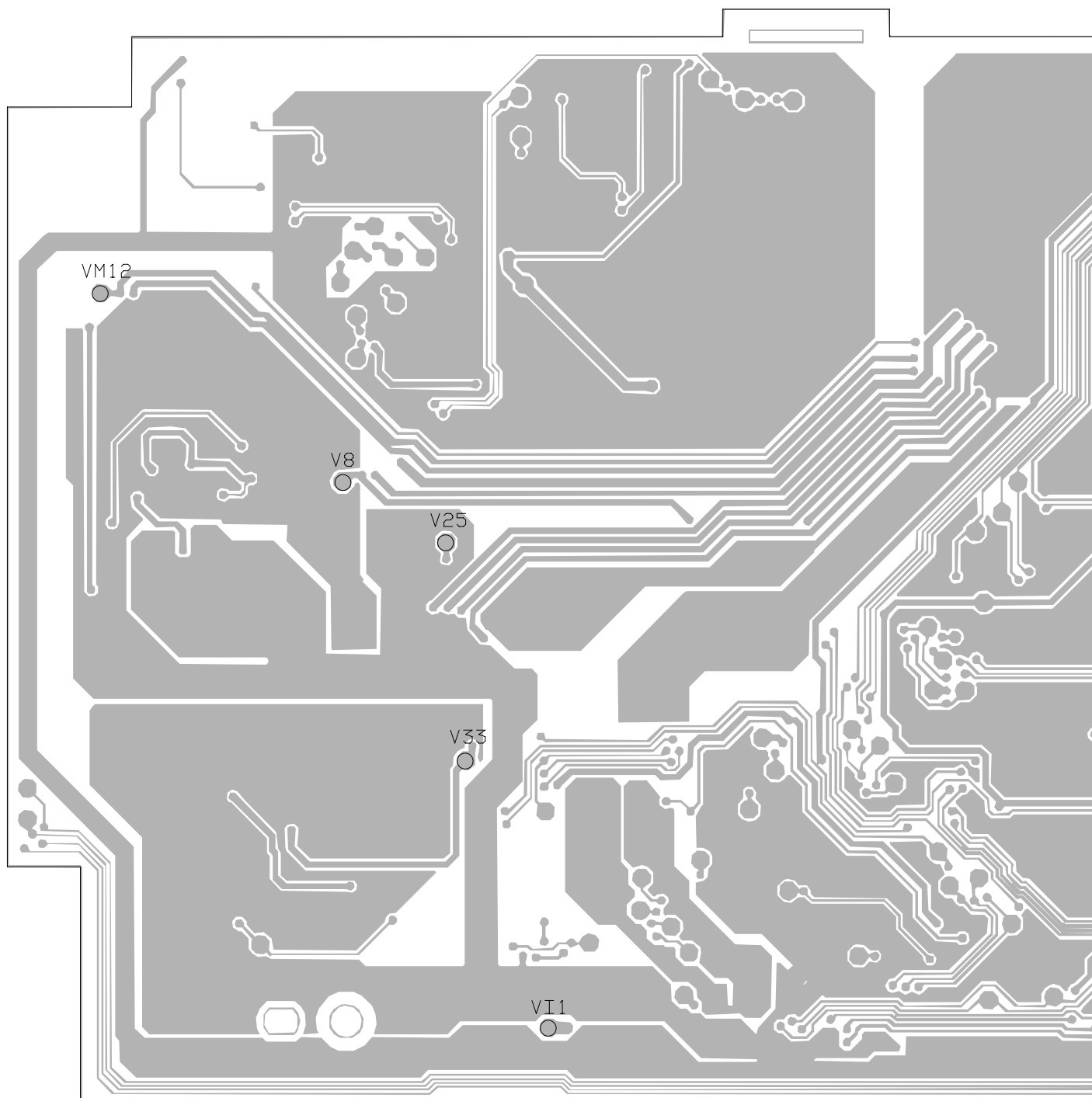


LCD
PANEL

CN5001

SIDE A



G MONITOR PCB

150

140

130

120

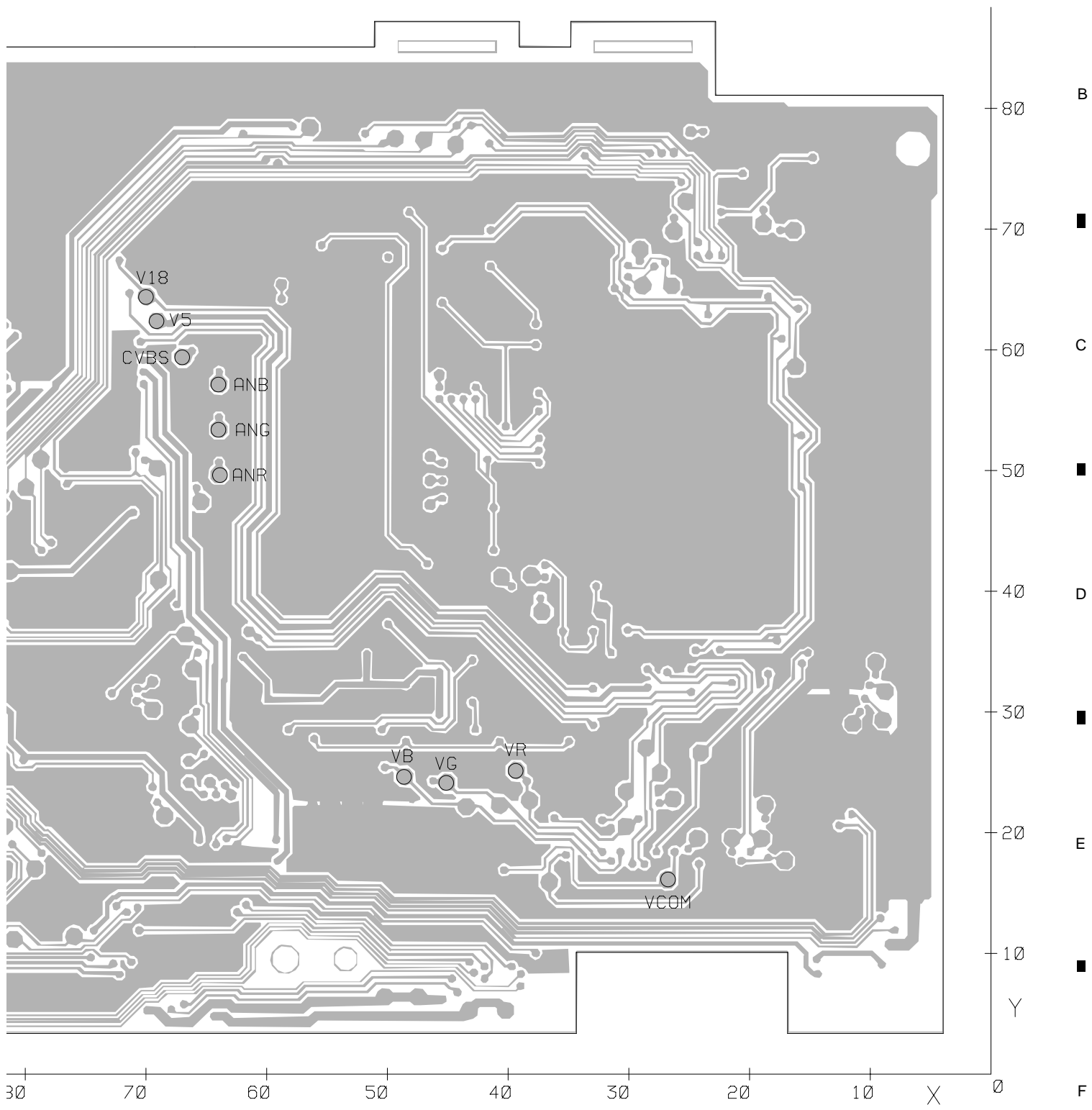
110

100

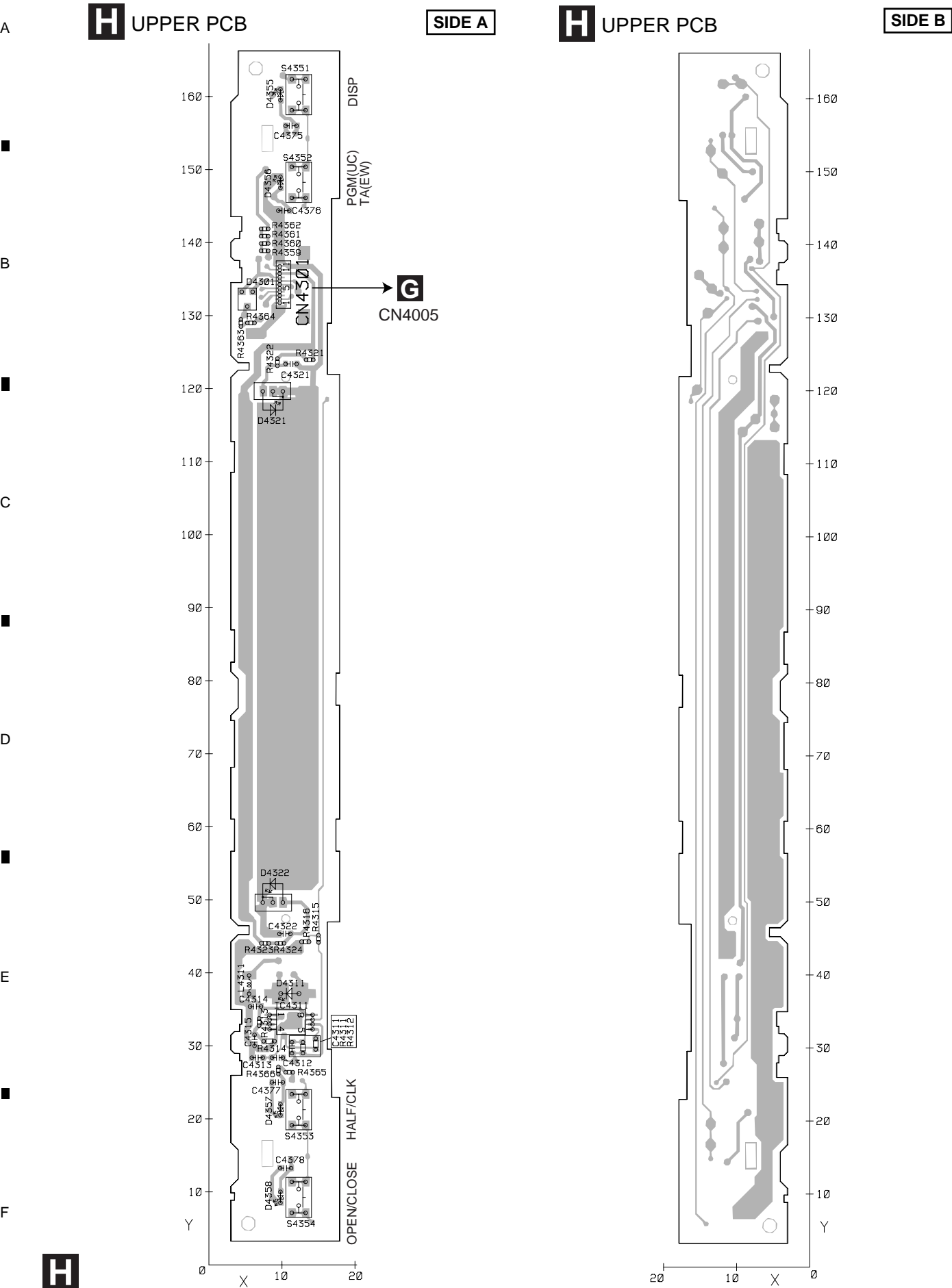
90

80

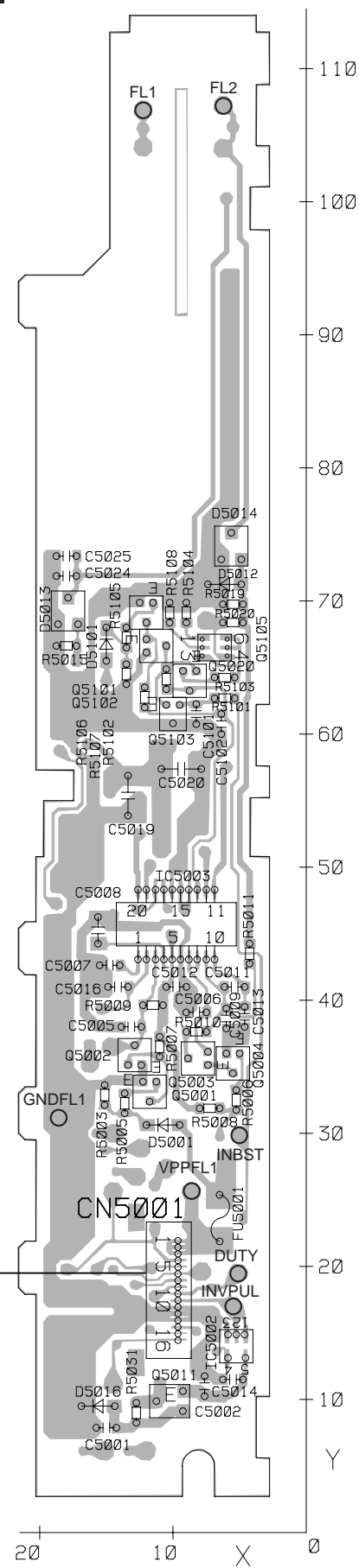
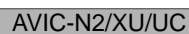
SIDE B



4.8 UPPER PCB



SIDE B

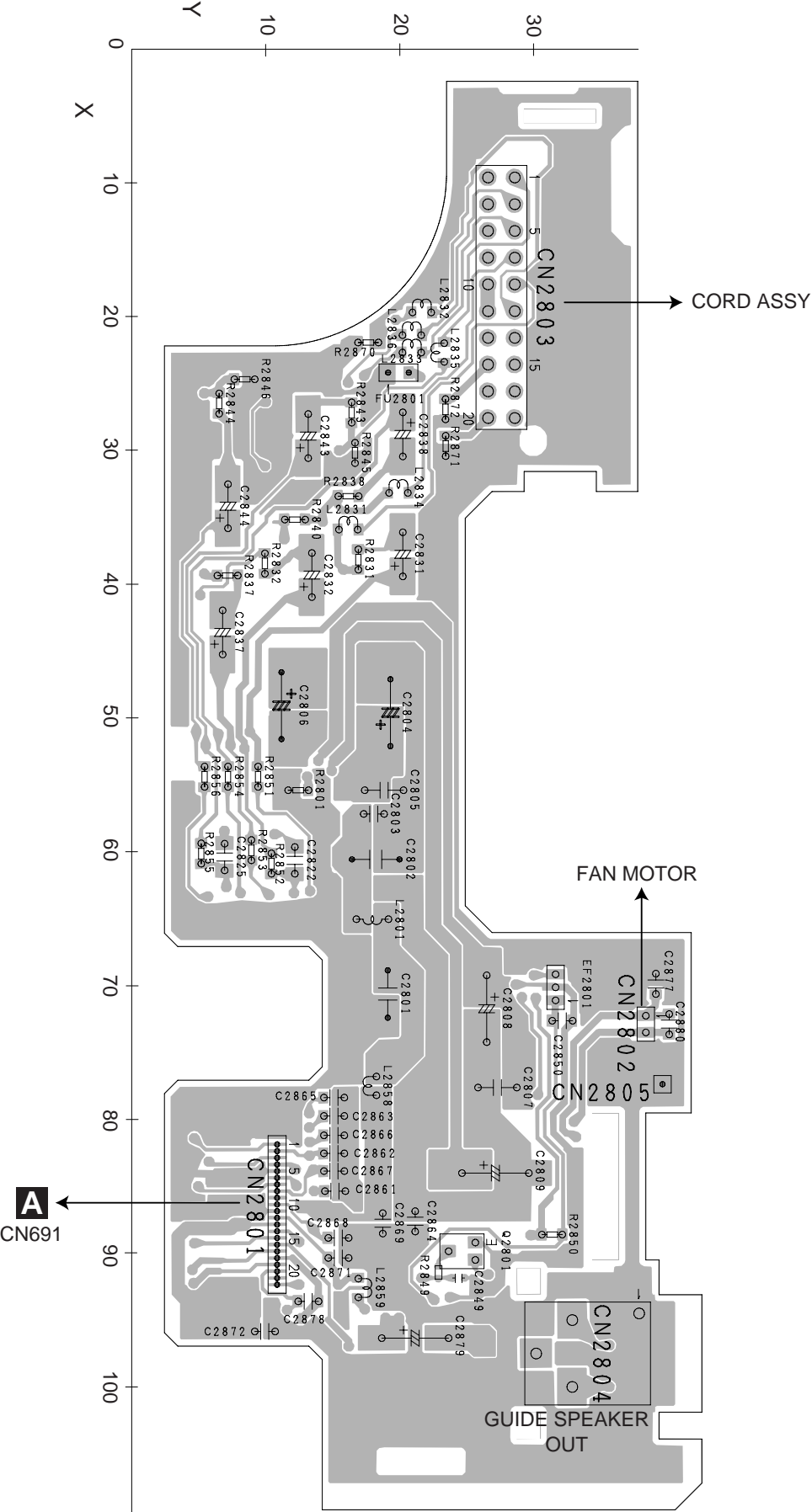


4.10 RELAY PCB

A

J RELAY PCB

SIDE A



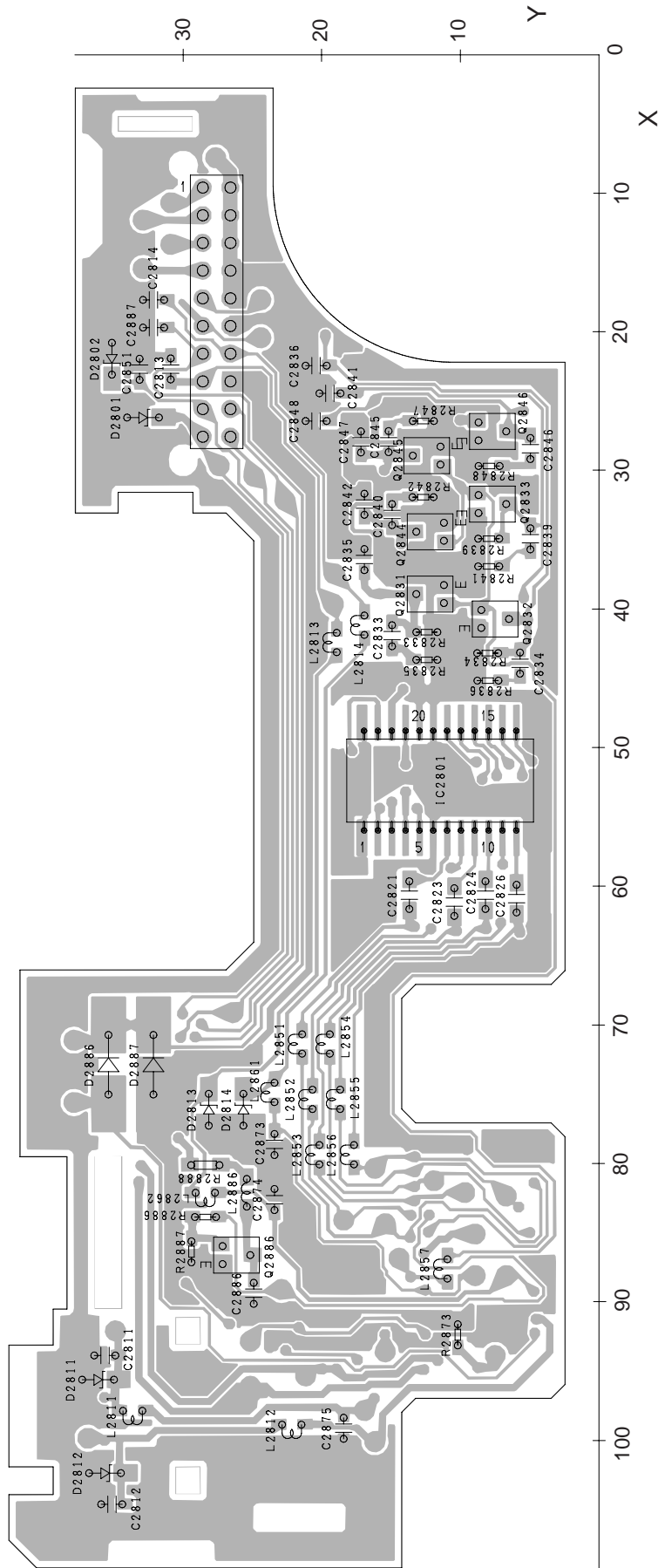
B

C

D

E

F



4

F





4.12 GPS UNIT

A

P GPS UNIT

SIDE A

IC,Q

IC401

IC504
Q441
IC441

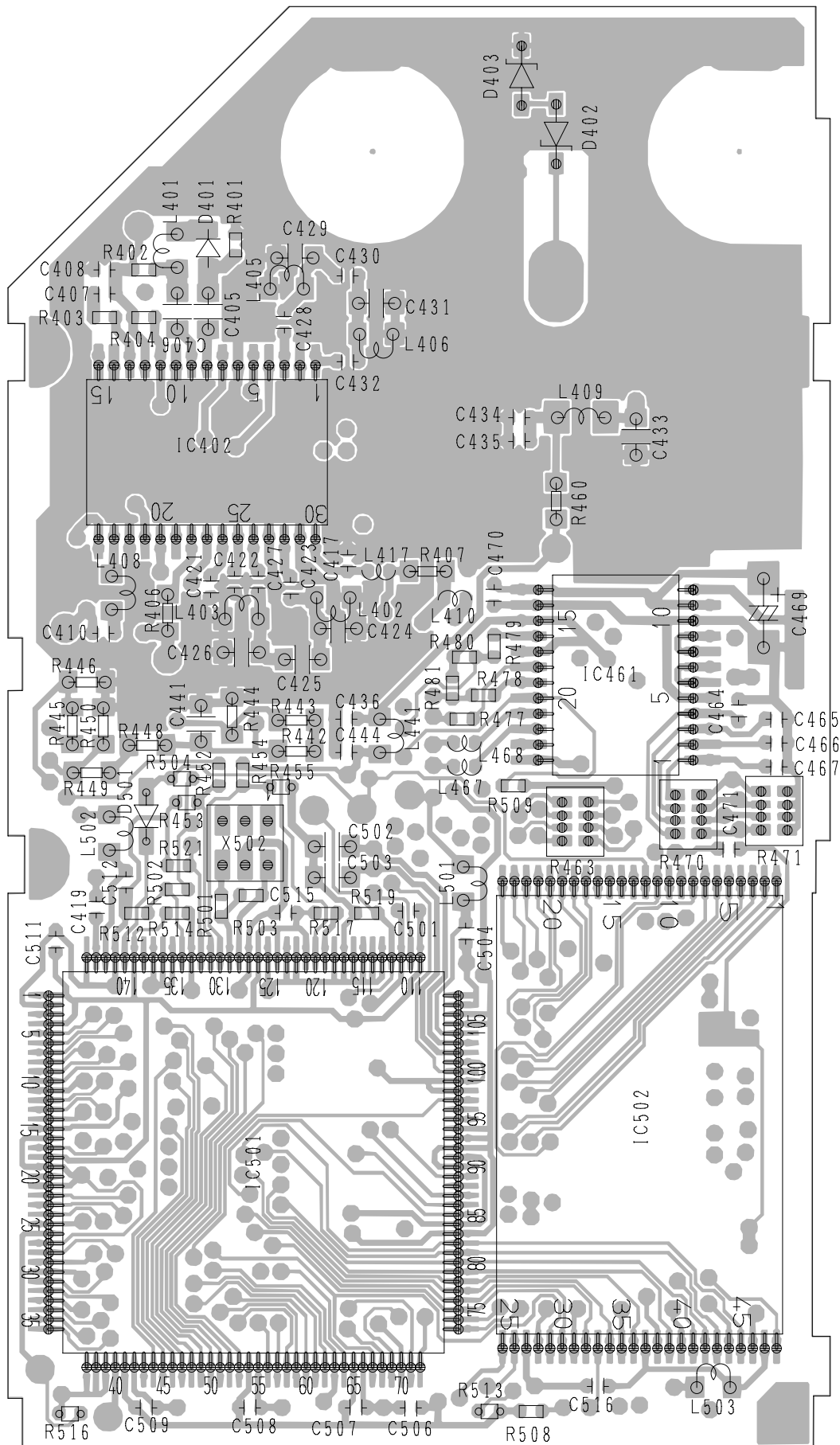
IC532

IC503

L
CN551

CN461

AVIC-N2/XU/UC



IC,Q

IC402

IC461

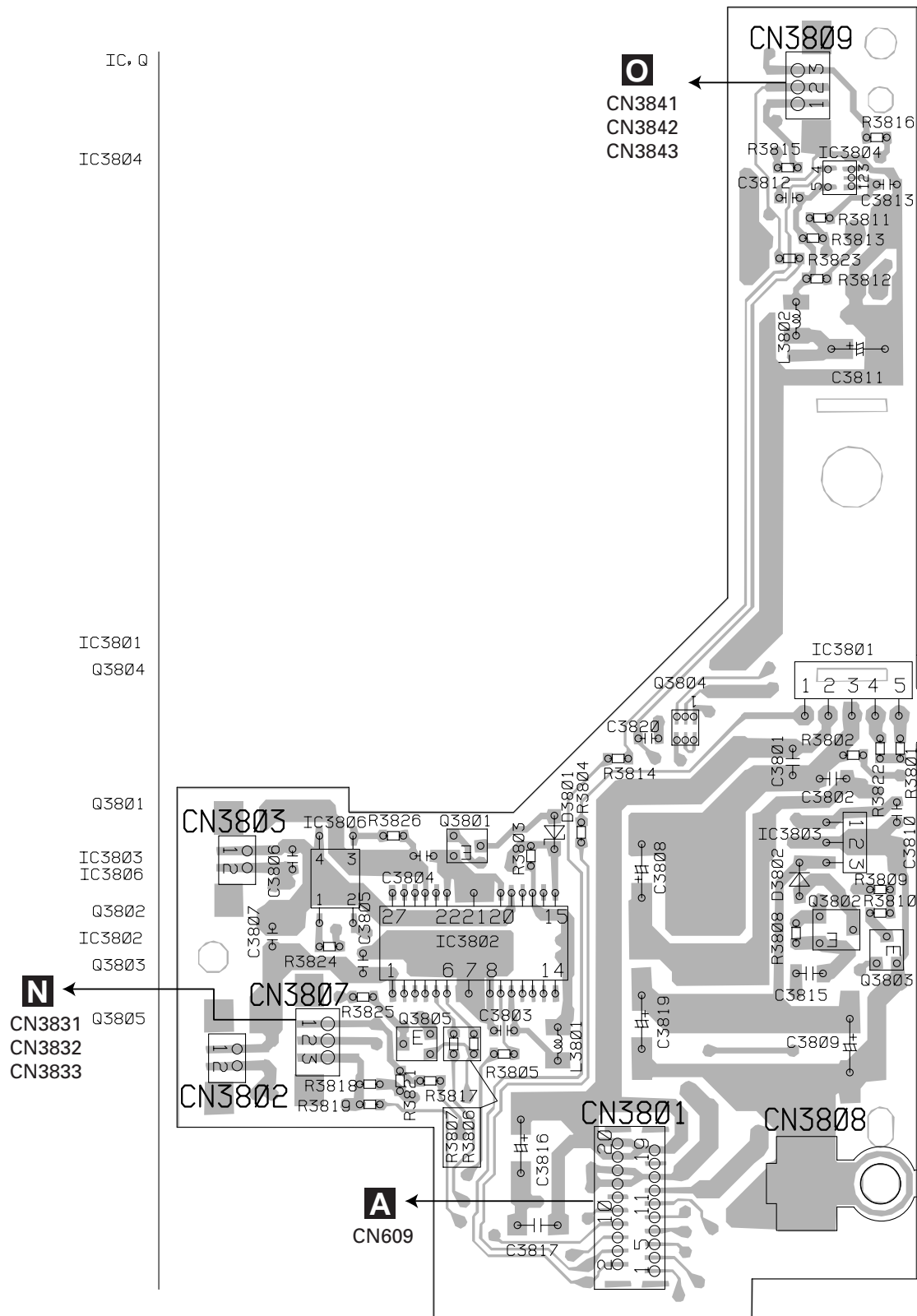
IC502

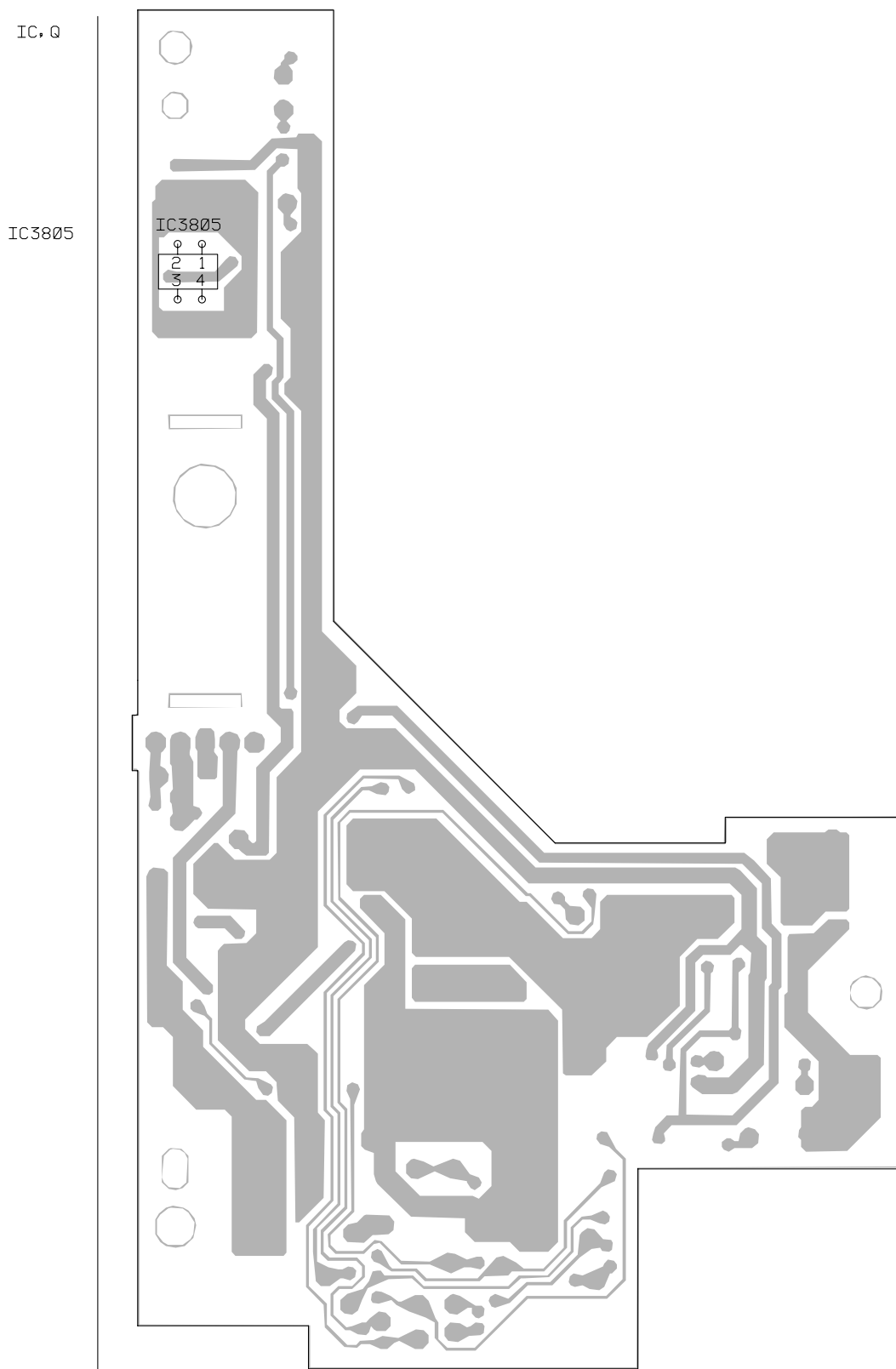
IC501

4.13 MAIN UNIT

M MAIN UNIT

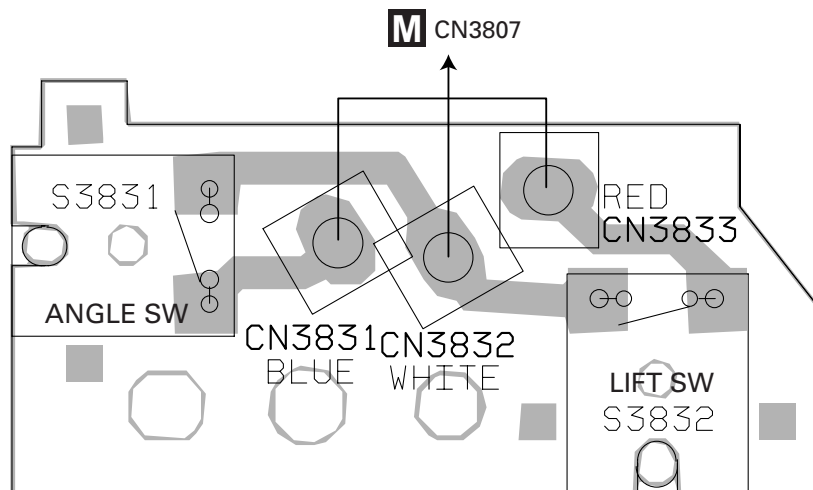
SIDE A



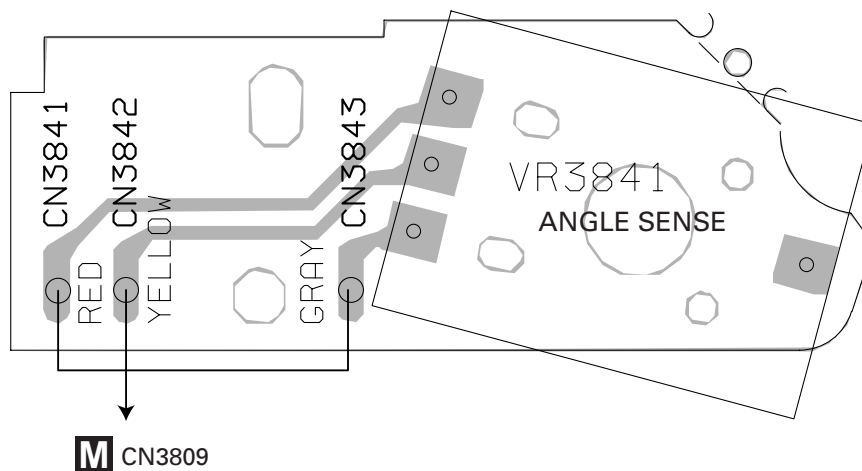
M MAIN UNIT**SIDE B**

4.14 SW UNIT AND VOLUME UNIT

N SW UNIT



O VOLUME UNIT



NO

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J, RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

A

Unit Number: CWM9948(AVIC-N2/XU/UC)
Unit Number: CWM9947(AVIC-X1R/XU/EW)
Unit Name: CC Unit

MISCELLANEOUS

| Circuit Symbol and No. | | Part No. | Circuit Symbol and No. | | Part No. |
|------------------------|------------------------|-------------------|------------------------|------------------------|-------------------|
| IC 608 | (B,60,94) IC | TC7WT125FU | IC 608 | (B,60,94) IC | TC7WT125FU |
| IC 611 | (B,44,104) IC | TC7S04FU | IC 611 | (B,44,104) IC | TC7S04FU |
| IC 612 | (B,51,91) IC | S-80840CNMC-B8Z | IC 612 | (B,51,91) IC | S-80840CNMC-B8Z |
| IC 613 | (B,48,104) IC | TC7SH00FUS1 | IC 613 | (B,48,104) IC | TC7SH00FUS1 |
| IC 691 | (B,165,143) IC | UPD4721GSS1 | IC 691 | (B,165,143) IC | UPD4721GSS1 |
| IC 751 | (B,98,102) IC | CXA1645M | IC 751 | (B,98,102) IC | CXA1645M |
| IC 752 | (B,117,121) IC | NJM2137V | IC 752 | (B,117,121) IC | NJM2137V |
| IC 753 | (B,88,117) IC | NJM2235V | IC 753 | (B,88,117) IC | NJM2235V |
| IC 754 | (B,79,120) IC | NJM2561F1 | IC 754 | (B,79,120) IC | NJM2561F1 |
| IC 755 | (B,107,116) IC | NJM2561F1 | IC 755 | (B,107,116) IC | NJM2561F1 |
| IC 756 | (B,100,117) IC | NJM2235V | IC 756 | (B,100,117) IC | NJM2235V |
| IC 757 | (B,87,98) IC | TC7SET08FUS1 | IC 757 | (B,87,98) IC | TC7SET08FUS1 |
| IC 758 | (B,85,92) IC | TC7SZ08FU | IC 758 | (B,85,92) IC | TC7SZ08FU |
| IC 801 | (B,62,83) IC | PQ018EZ01ZP | IC 801 | (B,62,83) IC | PQ018EZ01ZP |
| IC 803 | (B,32,58) IC | TPS5102IDBT | IC 803 | (B,32,58) IC | TPS5102IDBT |
| IC 804 | (B,67,59) IC | TPS5102IDBT | IC 804 | (B,67,59) IC | TPS5102IDBT |
| IC 805 | (B,15,64) IC | TPS5103IDB | IC 805 | (B,15,64) IC | TPS5103IDB |
| IC 806 | (A,74,92) IC | S-L2980A33MC-C6S | IC 806 | (A,74,92) IC | S-L2980A33MC-C6S |
| IC 807 | (A,63,111) IC | TPD1018F | IC 807 | (A,63,111) IC | TPD1018F |
| IC 808 | (B,61,101) IC | S-812C52AUA-C3G | IC 808 | (B,61,101) IC | S-812C52AUA-C3G |
| IC 810 | (B,34,85) IC | S-812C56AUA-C3K | IC 810 | (B,34,85) IC | S-812C56AUA-C3K |
| IC 2401 | (A,136,107) IC | PML009A | IC 2401 | (A,136,107) IC | PML009A |
| IC 2402 | (B,129,109) IC | TC7W66FU | IC 2402 | (B,129,109) IC | TC7W66FU |
| IC 2403 | (B,154,86) IC | TDA7052BT | IC 2403 | (B,154,86) IC | TDA7052BT |
| IC 2404 | (B,147,109) IC | NJM2058V | IC 2404 | (B,147,109) IC | NJM2058V |
| IC 2405 | (A,34,137) IC | PAL007A | IC 2405 | (A,34,137) IC | PAL007A |
| IC 2407 | (B,134,130) IC | NJM3403AV | IC 2407 | (B,134,130) IC | NJM3403AV |
| IC 2408 | (B,134,118) IC | NJM2107F | IC 2408 | (B,134,118) IC | NJM2107F |
| IC 2551 | (A,7,145) IC | TC7WT125FU | IC 2551 | (A,7,145) IC | TC7WT125FU |
| IC 2552 | (B,135,109) IC | NJM2068V | IC 2552 | (B,135,109) IC | NJM2068V |
| IC 2553 | (B,116,109) IC | NJM2068V | IC 2553 | (B,116,109) IC | NJM2068V |
| IC 2601 | (B,165,109) IC | NJM3403AV | IC 2601 | (B,165,109) IC | NJM3403AV |
| IC 2701 | (B,42,28) IC | TC7SH08FUS1 | IC 2701 | (B,42,28) IC | TC7SH08FUS1 |
| IC 2702 | (B,38,88) IC | TC7SH14FUS1 | IC 2702 | (B,38,88) IC | TC7SH14FUS1 |
| Q 201 | (A,126,11) Transistor | UMD2N | Q 201 | (A,126,11) Transistor | UMD2N |
| Q 301 | (A,151,22) Transistor | DTC114EU | Q 301 | (A,151,22) Transistor | DTC114EU |
| Q 601 | (B,152,135) Transistor | 2SC4081 | Q 601 | (B,152,135) Transistor | 2SC4081 |
| Q 602 | (B,51,85) Transistor | UMD2N | Q 602 | (B,51,85) Transistor | UMD2N |
| Q 621 | (B,41,109) Transistor | IMD2A | Q 621 | (B,41,109) Transistor | IMD2A |
| Q 691 | (B,162,150) Transistor | 2SD1767 | Q 691 | (B,162,150) Transistor | 2SD1767 |
| Q 692 | (B,155,149) Transistor | IMD3A | Q 692 | (B,155,149) Transistor | IMD3A |
| IC 1 | (B,139,31) IC | K4S561632E-TL75 | IC 1 | (B,139,31) IC | K4S561632E-TL75 |
| IC 2 | (A,142,51) IC | UPD705103GM-180S1 | IC 2 | (A,142,51) IC | UPD705103GM-180S1 |
| IC 3 | (B,156,31) IC | HY57V561620CLT-H | IC 3 | (B,156,31) IC | HY57V561620CLT-H |
| IC 4 | (A,158,22) IC | TC7SZ08FU | IC 4 | (A,158,22) IC | TC7SZ08FU |
| IC 5 | (B,147,55) IC | PD6336C | IC 5 | (B,147,55) IC | PD6336C |
| IC 101 | (A,136,18) IC | TC74LCX08FTS1 | IC 101 | (A,136,18) IC | TC74LCX08FTS1 |
| IC 102 | (A,137,12) IC | TC7SH04FUS1 | IC 102 | (A,137,12) IC | TC7SH04FUS1 |
| IC 103 | (A,135,28) IC | TC74LCX245FTS1 | IC 103 | (A,135,28) IC | TC74LCX245FTS1 |
| IC 104 | (A,144,28) IC | TC74LCX245FTS1 | IC 104 | (A,144,28) IC | TC74LCX245FTS1 |
| IC 105 | (A,152,28) IC | TC74LCX245FTS1 | IC 105 | (A,152,28) IC | TC74LCX245FTS1 |
| IC 106 | (A,161,28) IC | TC74LCX245FTS1 | IC 106 | (A,161,28) IC | TC74LCX245FTS1 |
| IC 107 | (A,163,38) IC | TC74LCX541FTS1 | IC 107 | (A,163,38) IC | TC74LCX541FTS1 |
| IC 108 | (A,163,46) IC | TC74LCX541FTS1 | IC 108 | (A,163,46) IC | TC74LCX541FTS1 |
| IC 109 | (A,163,55) IC | TC74LCX541FTS1 | IC 109 | (A,163,55) IC | TC74LCX541FTS1 |
| IC 110 | (B,119,40) IC (UC) | PEH005A | IC 110 | (B,119,40) IC (UC) | PEH005A |
| | (B,119,40) IC (EW) | PEH003A | | (B,119,40) IC (EW) | PEH003A |
| IC 111 | (B,119,24) IC (UC) | PEH006A | IC 111 | (B,119,24) IC (UC) | PEH006A |
| | (B,119,24) IC (EW) | PEH004A | | (B,119,24) IC (EW) | PEH004A |
| IC 112 | (B,107,62) IC | TC7SH00FUS1 | IC 112 | (B,107,62) IC | TC7SH00FUS1 |
| IC 113 | (B,119,58) IC | M5M5V216ATP-70HI | IC 113 | (B,119,58) IC | M5M5V216ATP-70HI |
| IC 114 | (B,107,59) IC | TC7SH08FUS1 | IC 114 | (B,107,59) IC | TC7SH08FUS1 |
| IC 201 | (A,105,25) IC | MB86291APFVS-G-DL | IC 201 | (A,105,25) IC | MB86291APFVS-G-DL |
| IC 301 | (A,145,19) IC | M51957BFP | IC 301 | (A,145,19) IC | M51957BFP |
| IC 302 | (A,142,11) IC | TC7SH08FUS1 | IC 302 | (A,142,11) IC | TC7SH08FUS1 |
| IC 304 | (A,110,53) IC | AK4351VT | IC 304 | (A,110,53) IC | AK4351VT |
| IC 305 | (A,98,63) IC | AK5381VT | IC 305 | (A,98,63) IC | AK5381VT |
| IC 309 | (A,122,49) IC | TC7SH08FUS1 | IC 309 | (A,122,49) IC | TC7SH08FUS1 |
| IC 601 | (A,46,99) IC | PD5937A | IC 601 | (A,46,99) IC | PD5937A |
| IC 602 | (B,45,98) IC | TC74VHCT08AFTS1 | IC 602 | (B,45,98) IC | TC74VHCT08AFTS1 |
| IC 603 | (B,53,100) IC | TC7SH08FUS1 | IC 603 | (B,53,100) IC | TC7SH08FUS1 |
| IC 604 | (A,126,88) IC | TC7SH08FUS1 | IC 604 | (A,126,88) IC | TC7SH08FUS1 |
| IC 605 | (A,131,89) IC | TC7SH08FUS1 | IC 605 | (A,131,89) IC | TC7SH08FUS1 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

Q 704 (B,63,154) Transistor 2SA1576
 Q 731 (B,69,114) Transistor IMD3A
 Q 751 (B,87,103) Transistor 2SC4081

Q 2606 (B,116,96) Transistor UMD2N
 Q 2607 (B,158,98) Transistor DTC323TU
 Q 2608 (B,119,96) Transistor UMD2N

Q 752 (B,78,112) Transistor 2SC4081
 Q 754 (A,77,106) Transistor 2SC4081
 Q 801 (B,30,34) Transistor 2SB1260
 Q 802 (B,25,26) Transistor DTC114EU
 Q 803 (B,43,34) Transistor 2SA1834F5

Q 2610 (B,33,123) Transistor UMD2N
 Q 2611 (B,33,117) Transistor UMD2N
 Q 2701 (B,42,24) Transistor DTC114TU
 Q 2702 (B,35,10) Transistor DTC144EU
 Q 2703 (B,35,17) Transistor 2SA1577

Q 804 (B,55,35) Transistor DTC114EU
 Q 805 (A,122,137) FET RSQ030P03
 Q 806 (A,119,134) Transistor DTC144EU
 Q 807 (A,36,81) Transistor 2SB1260
 Q 808 (B,45,85) Transistor DTC114EU

Q 2704 (B,39,9) Transistor UMH1N
 Q 2705 (B,39,17) Transistor 2SA1577
 Q 2706 (B,35,22) Transistor IMD2A
 Q 2707 (A,36,11) Transistor DTC144EU
 Q 2708 (A,36,18) Transistor 2SA1577

Q 809 (A,89,50) Transistor 2SA1797
 Q 810 (A,92,57) Transistor DTC114EU
 Q 811 (B,13,51) FET RK4936
 Q 814 (B,62,45) Transistor DTC114EU
 Q 815 (B,45,69) FET RK4936

Q 2709 (A,39,11) Transistor (EW) DTC144EU
 Q 2710 (A,39,18) Transistor (EW) 2SA1577
 Q 2711 (A,42,10) Transistor (EW) UMH1N
 Q 2712 (A,42,18) Transistor (EW) 2SA1577
 Q 2713 (B,36,100) Transistor IMD2A

Q 816 (B,80,68) FET RK4936
 Q 819 (B,45,48) FET RK4936
 Q 820 (B,80,49) FET RK4936
 Q 821 (B,85,149) Transistor 2SA1834F5
 Q 822 (B,91,153) Transistor DTC114EU

Q 2714 (A,42,25) Transistor 2SA1576
 Q 2715 (B,35,107) Transistor 2SD1767
 Q 2716 (A,35,25) Transistor DTC124EU
 Q 2717 (B,35,92) Transistor DTC114EU
 D 610 (B,54,89) Diode 1SS355

Q 823 (B,111,136) Transistor 2SC4081
 Q 824 (B,104,134) Transistor 2SB1184F5
 Q 825 (B,114,136) Transistor 2SC4081
 Q 828 (B,65,115) Transistor IMX1
 Q 829 (B,67,106) Transistor 2SB1184F5

D 691 (B,154,152) Diode HZU8R2(B1)
 D 692 (A,172,136) Diode UDZS20(B)
 D 693 (A,172,132) Diode UDZS20(B)
 D 694 (A,167,136) Diode UDZS20(B)
 D 695 (A,167,132) Diode UDZS20(B)

Q 830 (B,30,85) Transistor UMF23N
 Q 832 (A,114,137) FET RSQ030P03
 Q 835 (B,118,139) Transistor 2SC4081
 Q 837 (B,40,118) Transistor 2SC4081
 Q 838 (A,111,134) Transistor DTC144EU

D 696 (A,170,136) Diode UDZS20(B)
 D 697 (A,170,132) Diode UDZS20(B)
 D 698 (A,165,136) Diode UDZS20(B)
 D 699 (A,165,132) Diode UDZS20(B)
 D 700 (A,168,136) Diode UDZS6R8(B)

Q 839 (A,72,109) Transistor UMD2N
 Q 840 (B,68,136) Transistor 2SA1576
 Q 843 (B,66,95) Transistor 2SD1767
 Q 951 (A,75,95) Transistor DTC124EU
 Q 971 (B,18,125) Transistor IMX2

D 707 (B,63,151) Diode DAN202U
 D 708 (A,64,135) Diode 5KP22A
 D 731 (B,144,144) Diode UDZS6R8(B)
 D 732 (A,134,136) Diode UDZS6R8(B)
 D 733 (A,136,136) Diode UDZS6R8(B)

Q 972 (B,18,116) Transistor IMD3A
 Q 973 (B,7,119) Transistor 2SD1767
 Q 2401 (B,125,128) Transistor UMD2N
 Q 2402 (B,128,133) Transistor DTC323TU
 Q 2403 (B,128,128) Transistor DTC323TU

D 734 (A,137,136) Diode UDZS6R8(B)
 D 735 (A,139,136) Diode UDZS6R8(B)
 D 736 (B,151,151) Diode UMZ6R8N
 D 737 (B,149,137) Diode UMZ6R8N
 D 738 (B,145,138) Diode UMZ6R8N

Q 2408 (B,122,106) Transistor UMD2N
 Q 2409 (B,123,110) Transistor DTC323TU
 Q 2410 (B,125,119) Transistor UMD2N
 Q 2414 (B,126,113) Transistor DTC124EU
 Q 2415 (B,126,105) Transistor DTC124EU

D 739 (B,154,142) Diode UMZ6R8N
 D 740 (B,151,142) Diode UMZ6R8N
 D 741 (B,148,151) Diode UMZ6R8N
 D 742 (A,162,142) Diode UDZS6R8(B)
 D 743 (A,162,140) Diode UDZS6R8(B)

Q 2416 (B,139,109) Transistor UMD2N
 Q 2417 (B,139,106) Transistor DTC323TU
 Q 2418 (B,139,112) Transistor DTC323TU
 Q 2419 (B,22,114) Transistor UMD2N
 Q 2420 (B,142,85) Transistor DTC114EU

D 744 (A,162,138) Diode UDZS6R8(B)
 D 745 (B,137,144) Diode UDZS6R8(B)
 D 746 (B,138,141) Diode UDZS6R8(B)
 D 747 (B,142,141) Diode UDZS6R8(B)
 D 748 (B,142,144) Diode UDZS6R8(B)

Q 2421 (B,33,114) Transistor UMD2N
 Q 2422 (B,27,112) Transistor 2SC4081
 Q 2427 (B,25,123) Transistor DTC124EU
 Q 2428 (B,28,126) Transistor DTC124EU
 Q 2603 (B,113,96) Transistor UMD2N

D 749 (A,141,136) Diode UDZS6R8(B)
 D 750 (A,143,137) Diode UDZS10(B)
 D 753 (B,150,146) Diode UDZS6R8(B)
 D 754 (B,145,141) Diode UDZS6R8(B)
 D 802 (B,39,57) Diode RB400D

Q 2604 (B,164,98) Transistor DTC323TU
 Q 2605 (B,161,98) Transistor DTC323TU

D 803 (B,39,61) Diode RB400D
 D 804 (B,74,57) Diode RB400D

| Circuit Symbol and No. | | | Part No. | Circuit Symbol and No. | | | Part No. |
|------------------------|-------------------------|--|-------------|------------------------|----------------------|--|----------|
| D 805 | (B,74,61) Diode | | RB400D | L 103 | (A,140,28) Inductor | | CTF1557 |
| D 806 | (B,9,59) Diode | | RB400D | L 104 | (A,148,27) Inductor | | CTF1557 |
| D 807 | (A,41,56) Diode | | RB060L-40 | L 105 | (A,156,27) Inductor | | CTF1557 |
| D 808 | (A,41,60) Diode | | RB060L-40 | L 106 | (A,165,27) Inductor | | CTF1557 |
| D 809 | (A,75,55) Diode | | RB060L-40 | L 107 | (A,163,34) Inductor | | CTF1557 |
| D 810 | (A,75,60) Diode | | RB060L-40 | L 108 | (A,163,42) Inductor | | CTF1557 |
| D 812 | (B,39,113) Diode | | HZU6R8(B2) | L 109 | (A,163,51) Inductor | | CTF1557 |
| D 814 | (A,104,138) Diode | | KS926S2 | L 110 | (B,106,38) Inductor | | CTF1556 |
| D 815 | (B,100,128) Diode | | HZU7R5(B3) | L 111 | (B,106,23) Inductor | | CTF1556 |
| D 816 | (B,61,118) Diode | | UDZS18(B) | L 112 | (B,108,55) Inductor | | CTF1556 |
| D 817 | (B,71,93) Diode | | UDZS20(B) | L 113 | (B,109,60) Inductor | | CTF1557 |
| D 818 | (A,20,51) Diode | | RB060L-40 | L 114 | (B,109,55) Inductor | | CTF1557 |
| D 820 | (B,61,131) Diode | | S1G-6904G2P | L 201 | (A,127,29) Inductor | | CTF1556 |
| D 821 | (B,64,137) Diode | | 1SS355 | L 203 | (A,86,10) Inductor | | CTF1556 |
| D 822 | (B,64,133) Diode | | 1SS355 | L 204 | (A,105,45) Inductor | | CTF1488 |
| D 828 | (B,51,133) Diode | | S1G-6904G2P | L 205 | (A,124,21) Inductor | | CTF1556 |
| D 830 | (B,96,138) Diode | | RB500V-40 | L 206 | (A,89,45) Inductor | | CTF1556 |
| D 831 | (B,96,136) Diode | | RB500V-40 | L 207 | (A,95,43) Inductor | | CTF1379 |
| D 832 | (A,8,68) Diode | | S1G-6904G2P | L 301 | (A,141,19) Inductor | | CTF1557 |
| D 833 | (B,57,150) Diode | | 1SS400 | L 302 | (A,145,13) Inductor | | CTF1557 |
| D 971 | (B,13,119) Diode | | RB751V40 | L 305 | (A,103,54) Inductor | | CTF1556 |
| D 972 | (B,13,121) Diode | | RB751V40 | L 306 | (A,90,61) Inductor | | CTF1556 |
| D 973 | (B,14,117) Diode | | HZU8R2(B1) | L 307 | (A,90,65) Inductor | | CTF1556 |
| D 974 | (B,12,122) Diode | | UDZ12(B) | L 308 | (A,110,59) Inductor | | CTF1334 |
| D 2404 | (B,110,97) Diode | | DAN202U | L 312 | (A,121,52) Inductor | | CTF1410 |
| D 2405 | (B,128,130) Diode | | DAP202U | L 601 | (B,53,97) Inductor | | CTF1334 |
| D 2406 | (A,134,122) Diode | | 1SS355 | L 602 | (B,44,90) Inductor | | CTF1334 |
| D 2407 | (A,134,129) Diode | | UDZS4R7(B) | L 603 | (B,44,93) Inductor | | CTF1334 |
| D 2408 | (B,142,109) Diode | | DAP202U | L 604 | (A,44,88) Inductor | | CTF1334 |
| D 2409 | (B,23,111) Diode | | UDZS8R2(B) | L 605 | (B,158,135) Inductor | | CTF1334 |
| D 2410 | (B,24,120) Diode | | DAN202U | L 606 | (A,126,91) Inductor | | CTF1334 |
| D 2411 | (B,27,119) Diode | | DAN202U | L 607 | (A,131,86) Inductor | | CTF1334 |
| D 2412 | (B,34,120) Diode | | DAN202U | L 610 | (B,56,94) Inductor | | CTF1334 |
| D 2413 | (B,29,122) Diode | | DAN202U | L 613 | (B,44,106) Inductor | | CTF1334 |
| D 2551 | (A,13,146) Diode | | UDZS6R8(B) | L 616 | (B,48,106) Inductor | | CTF1334 |
| D 2701 | (B,37,27) Diode | | 1SS355 | L 617 | (B,50,87) Inductor | | CTF1334 |
| D 2702 | (B,63,8) Diode Network | | DA204U | L 619 | (A,129,84) Inductor | | CTF1306 |
| D 2703 | (B,51,28) Diode Network | | DA204U | L 620 | (A,128,81) Inductor | | CTF1306 |
| D 2704 | (B,48,14) Diode | | UDZS5R6(B) | L 621 | (A,129,81) Inductor | | CTF1306 |
| D 2705 | (A,50,21) Diode Network | | DA204U | L 622 | (A,127,84) Inductor | | CTF1384 |
| D 2706 | (A,50,10) Diode Network | | DA204U | L 623 | (A,127,81) Inductor | | CTF1387 |
| D 2707 | (A,50,13) Diode Network | | DA204U | L 624 | (A,125,84) Inductor | | CTF1334 |
| D 2708 | (A,50,15) Diode Network | | DA204U | L 625 | (A,98,83) Inductor | | CTF1306 |
| D 2709 | (B,51,23) Diode Network | | DA204U | L 626 | (A,96,83) Inductor | | CTF1306 |
| D 2710 | (B,51,25) Diode Network | | DA204U | L 627 | (A,128,84) Inductor | | CTF1306 |
| D 2711 | (A,50,18) Diode Network | | DA204U | L 628 | (A,124,84) Inductor | | CTF1306 |
| D 2712 | (B,35,97) Diode | | HZU8R2(B1) | L 629 | (A,125,81) Inductor | | CTF1306 |
| D 2713 | (B,35,95) Diode | | HZU5R6(B2) | L 630 | (A,131,84) Inductor | | CTF1306 |
| D 2714 | (B,45,21) Diode | | DAP202U | L 631 | (A,122,81) Inductor | | CTF1334 |
| D 2715 | (B,38,22) Diode | | DAP202U | L 632 | (A,121,84) Inductor | | CTF1334 |
| D 2821 | (A,163,135) Diode | | RB500V-40 | L 633 | (A,121,81) Inductor | | CTF1334 |
| L 1 | (B,132,17) Inductor | | CTF1558 | L 634 | (A,120,84) Inductor | | CTF1334 |
| L 2 | (B,147,18) Inductor | | CTF1558 | L 635 | (A,122,84) Inductor | | CTF1306 |
| L 3 | (A,158,17) Inductor | | CTF1410 | L 636 | (A,105,87) Inductor | | CTF1334 |
| L 5 | (A,139,33) Inductor | | CTF1556 | L 637 | (A,120,81) Inductor | | CTF1306 |
| L 6 | (A,128,35) Inductor | | CTF1295 | L 638 | (A,118,84) Inductor | | CTF1306 |
| L 7 | (B,162,55) Inductor | | CTF1558 | L 639 | (A,118,81) Inductor | | CTF1306 |
| L 8 | (A,149,68) Inductor | | CTF1556 | L 640 | (A,117,84) Inductor | | CTF1306 |
| L 101 | (A,132,16) Inductor | | CTF1557 | L 641 | (A,124,81) Inductor | | CTF1306 |
| L 102 | (A,134,12) Inductor | | CTF1557 | L 644 | (A,115,84) Inductor | | CTF1306 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

L 645 (A,115,81) Inductor CTF1306
 L 646 (A,114,84) Inductor CTF1334
 L 647 (A,114,81) Inductor CTF1334

L 712 (A,46,121) Inductor CTF1629
 L 713 (A,76,114) Inductor CTF1306
 L 714 (A,74,114) Inductor CTF1306

L 648 (A,112,81) Inductor CTF1378
 L 649 (A,110,81) Inductor CTF1378
 L 650 (A,109,81) Inductor CTF1378
 L 651 (A,105,81) Inductor CTF1378
 L 652 (A,103,84) Inductor CTF1334

L 715 (A,73,122) Inductor CTF1306
 L 716 (A,70,113) Inductor CTF1306
 L 717 (A,72,114) Inductor CTF1306
 L 718 (B,158,146) Inductor CTF1410
 L 719 (B,170,150) Inductor CTF1334

L 653 (A,103,81) Inductor CTF1467
 L 654 (A,102,84) Inductor CTF1306
 L 660 (A,25,83) Inductor CTF1463
 L 661 (A,26,85) Inductor CTF1386
 L 662 (A,26,87) Inductor CTF1306

L 721 (A,36,114) Inductor CTF1306
 L 722 (A,36,122) Inductor CTF1306
 L 723 (A,22,112) Inductor CTF1306
 L 724 (A,24,112) Inductor CTF1306
 L 725 (A,25,112) Inductor CTF1306

L 663 (A,26,89) Inductor CTF1306
 L 665 (B,18,90) Inductor CTF1306
 L 667 (B,15,90) Inductor CTF1467
 L 668 (B,18,91) Inductor CTF1334
 L 669 (B,15,92) Inductor CTF1306

L 726 (A,37,122) Inductor CTF1306
 L 727 (A,25,121) Inductor CTF1306
 L 732 (A,158,139) Inductor CTF1295
 L 733 (A,157,141) Inductor CTF1295
 L 734 (A,157,143) Inductor CTF1295

L 670 (B,18,93) Inductor CTF1306
 L 671 (A,26,90) Inductor CTF1306
 L 672 (B,15,94) Inductor CTF1306
 L 673 (A,26,92) Inductor CTF1306
 L 674 (B,18,95) Inductor CTF1306

L 735 (B,145,148) Inductor CTF1295
 L 736 (B,143,148) Inductor CTF1295
 L 737 (B,141,144) Inductor CTF1295
 L 738 (B,139,144) Inductor CTF1295
 L 739 (B,138,148) Inductor CTF1295

L 675 (A,26,94) Inductor CTF1463
 L 676 (B,16,98) Inductor CTF1463
 L 677 (B,27,96) Inductor CTF1463
 L 678 (B,18,104) Inductor CTF1463
 L 679 (A,27,107) Inductor CTF1453

L 740 (B,136,148) Inductor CTF1410
 L 741 (A,145,140) Inductor CTF1295
 L 742 (A,142,140) Inductor CTF1295
 L 744 (A,117,81) Inductor CTF1334
 L 745 (A,152,141) Inductor CTF1334

L 680 (B,28,101) Inductor CTF1463
 L 681 (A,42,114) Inductor CTF1306
 L 682 (A,40,114) Inductor CTF1357
 L 683 (A,40,121) Inductor CTF1357
 L 684 (A,39,114) Inductor CTF1357

L 746 (A,153,141) Inductor CTF1334
 L 748 (A,148,141) Inductor CTF1334
 L 749 (A,150,141) Inductor CTF1334
 L 751 (B,85,106) Inductor CTF1334
 L 753 (B,95,111) Inductor LCTAW680J3225

L 685 (A,37,114) Inductor CTF1357
 L 686 (A,73,114) Inductor CTF1306
 L 687 (A,82,117) Inductor CTF1306
 L 688 (A,34,114) Inductor CTF1357
 L 689 (A,34,122) Inductor CTF1306

L 754 (B,91,94) Inductor CTF1334
 L 755 (A,102,122) Inductor CTF1334
 L 756 (B,18,86) Inductor CTF1306
 L 757 (B,15,87) Inductor CTF1306
 L 758 (B,18,88) Inductor CTF1306

L 690 (A,33,114) Inductor CTF1334
 L 691 (A,33,122) Inductor CTF1334
 L 692 (A,80,122) Inductor CTF1306
 L 693 (A,31,114) Inductor CTF1384
 L 694 (A,78,122) Inductor CTF1306

L 759 (A,111,121) Inductor CTF1334
 L 760 (B,84,88) Inductor CTF1334
 L 761 (B,95,119) Inductor LCYC2R2K1608
 L 762 (B,110,116) Inductor LCYC2R2K1608
 L 763 (B,92,115) Inductor LCYC2R2K1608

L 695 (A,30,121) Inductor CTF1463
 L 696 (A,77,122) Inductor CTF1306
 L 697 (A,78,114) Inductor CTF1306
 L 698 (A,29,109) Inductor CTF1629
 L 699 (A,66,115) Inductor CTF1334

L 764 (B,77,120) Inductor LCYC2R2K1608
 L 765 (A,80,106) Inductor LCYC2R2K1608
 L 766 (B,114,116) Inductor LCYC2R2K1608
 L 767 (A,32,106) Inductor CTF1334
 L 768 (A,30,106) Inductor CTF1334

L 700 (A,56,122) Inductor CTF1306
 L 701 (A,18,110) Inductor CTF1629
 L 702 (B,61,149) Inductor LCYC2R2K1608
 L 703 (A,57,114) Inductor CTF1306
 L 704 (A,55,122) Inductor CTF1306

L 771 (A,131,136) Inductor CTF1453
 L 772 (A,128,136) Inductor CTF1453
 L 793 (A,131,81) Inductor CTF1334
 L 794 (A,102,81) Inductor CTF1306
 L 795 (A,100,84) Inductor CTF1306

L 705 (A,55,114) Inductor CTF1306
 L 706 (A,53,122) Inductor CTF1306
 L 707 (A,54,114) Inductor CTF1306
 L 708 (A,52,122) Inductor CTF1306
 L 709 (A,52,114) Inductor CTF1306

L 796 (A,100,81) Inductor CTF1306
 L 801 (A,12,54) Inductor CTH1254
 L 802 (A,16,68) Inductor CTH1257
 L 803 (A,41,49) Inductor CTH1254
 L 804 (A,41,68) Inductor CTH1255

L 710 (A,51,114) Inductor CTF1306
 L 711 (A,49,114) Inductor CTF1306

L 805 (A,75,48) Inductor CTH1257
 L 806 (A,77,68) Inductor CTH1257

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|---------------------------------|-----------------|
| L 807 | (A,89,147) Inductor | CTH1262 |
| L 808 | (A,28,65) Inductor | CTH1253 |
| L 809 | (A,63,65) Inductor | CTH1253 |
| L 810 | (A,90,136) Choke Coil 100μH | CTH1315 |
| L 811 | (B,58,134) Inductor | CTF1556 |
| L 812 | (A,65,73) Inductor | CTF1453 |
| L 815 | (B,61,136) Inductor | CTF1556 |
| L 816 | (B,31,26) Inductor | CTF1306 |
| L 817 | (A,40,80) Inductor | LCKBW1R0M2520 |
| L 818 | (A,29,83) Inductor | LCYA220J2520 |
| L 981 | (B,73,81) Inductor | CTF1453 |
| L 982 | (B,74,32) Inductor | CTF1463 |
| L 983 | (B,63,33) Inductor | CTF1463 |
| L 984 | (A,93,79) Inductor | CTF1463 |
| L 985 | (A,93,86) Inductor | CTF1463 |
| L 2402 | (B,116,91) Inductor | CTF1306 |
| L 2404 | (A,148,105) Inductor | LCYA2R2J2520 |
| L 2551 | (A,12,143) Inductor | CTF1379 |
| L 2554 | (B,35,115) Inductor | CTF1334 |
| L 2555 | (B,35,111) Inductor | CTF1334 |
| L 2601 | (B,160,104) Inductor | CTF1334 |
| L 2701 | (B,48,16) Inductor | CTF1399 |
| L 2702 | (B,39,28) Inductor | CTF1334 |
| L 2703 | (B,42,88) Inductor | CTF1334 |
| L 2704 | (B,54,11) Inductor | CTF1306 |
| L 2705 | (B,56,11) Inductor | CTF1306 |
| L 2706 | (B,57,11) Inductor | CTF1306 |
| L 2707 | (B,55,18) Inductor | CTF1306 |
| L 2708 | (B,60,27) Inductor | CTF1306 |
| L 2709 | (B,55,23) Inductor | CTF1306 |
| L 2710 | (B,55,27) Inductor | CTF1306 |
| L 2711 | (B,51,30) Inductor | CTF1306 |
| L 2712 | (B,33,15) Inductor | CTF1334 |
| L 2713 | (B,37,17) Inductor | CTF1334 |
| L 2714 | (A,43,22) Inductor | CTF1334 |
| L 2715 | (A,39,22) Inductor (EW) | CTF1334 |
| L 2716 | (B,51,20) Inductor | CTF1334 |
| L 2717 | (B,58,7) Inductor | CTF1306 |
| L 2800 | (B,160,133) Inductor | CTF1305 |
| TH601 | (A,138,88) Thermistor | CCX1056 |
| X 1 | (A,143,72) Radiator 30.000MHz | CSS1633 |
| X 2 | (B,135,61) Radiator 33.000MHz | CSS1634 |
| X 3 | (B,161,49) Radiator 33.8688MHz | CSS1551 |
| X 202 | (A,127,22) Radiator 14.31818MHz | CSS1632 |
| X 601 | (A,47,88) Radiator 10.0MHz | CSS1577 |
| VR751 | (A,79,111) Semi-fixed 1kΩ(OB) | CCP1390 |
| △FU691 | (B,167,151) Fuse 2.5A | CEK1285 |
| △FU692 | (B,160,140) Fuse 2A | CEK1284 |
| △FU801 | (A,59,120) Fuse 1.25A | CEK1255 |
| △FU802 | (A,9,63) Fuse 4A | CEK1288 |
| △FU803 | (B,109,137) Fuse 375mA | CEK1277 |
| △FU804 | (A,24,72) Fuse 2.5A | CEK1285 |
| △FU805 | (A,62,72) Fuse 2.5A | CEK1285 |
| △FU806 | (A,63,117) Fuse 1A | CEK1254 |
| △FU807 | (A,40,83) Fuse 1A | CEK1280 |
| △FU808 | (B,46,120) Fuse 4A | CEK1260 |
| △FU809 | (A,125,136) Fuse 2A | CEK1284 |
| △FU810 | (A,97,132) Fuse 500mA | CEK1278 |
| △FU811 | (A,86,73) Fuse 2A | CEK1284 |
| △FU812 | (A,117,139) Fuse 250mA | CEK1276 |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|------------------------|-----------------|
| △FU813 | (A,83,47) Fuse 2.5A | CEK1285 |
| △FU814 | (B,61,106) Fuse 250mA | CEK1276 |
| △FU815 | (A,136,133) Fuse 1A | CEK1280 |
| △FU971 | (A,15,119) Fuse 375mA | CEK1277 |
| △FU2701 | (B,31,106) Fuse 250mA | CEK1276 |
| EF731 | (B,151,148) EMI Filter | CCG1082 |
| EF732 | (B,148,148) EMI Filter | CCG1082 |
| EF733 | (B,142,137) EMI Filter | CCG1067 |
| EF734 | (B,142,134) EMI Filter | CCG1067 |
| EF735 | (B,151,138) EMI Filter | CCG1067 |
| EF736 | (B,153,138) EMI Filter | CCG1067 |
| EF801 | (A,96,137) EMI Filter | CCG1172 |
| EF802 | (A,78,144) EMI Filter | CCG1172 |
| EF803 | (A,80,153) EMI Filter | CCG1172 |

RESISTORS

| | | |
|------|------------|--------------|
| R 1 | (B,131,34) | RS1/16S0R0J |
| R 3 | (B,131,37) | RS1/16S0R0J |
| R 5 | (A,115,59) | RS1/16S473J |
| R 6 | (A,121,63) | RS1/16S473J |
| R 7 | (A,157,48) | RS1/16S220J |
| R 8 | (A,120,70) | RS1/16S473J |
| R 10 | (A,153,70) | RS1/16S104J |
| R 11 | (A,155,70) | RAB4C473J |
| R 12 | (A,145,67) | RS1/16S105J |
| R 13 | (A,143,67) | RS1/16S151J |
| R 14 | (B,147,34) | RS1/16S0R0J |
| R 16 | (B,147,37) | RS1/16S0R0J |
| R 19 | (A,121,68) | RS1/16S473J |
| R 20 | (A,135,69) | RS1/16S101J |
| R 21 | (A,139,67) | RS1/16S101J |
| R 22 | (A,137,69) | RS1/16S101J |
| R 23 | (B,137,60) | RS1/16S105J |
| R 24 | (B,137,62) | RS1/16S151J |
| R 25 | (A,134,69) | RS1/16S101J |
| R 26 | (A,138,69) | RS1/16S101J |
| R 27 | (A,135,67) | RS1/16S101J |
| R 28 | (A,137,67) | RS1/16S101J |
| R 29 | (A,134,67) | RS1/16S101J |
| R 30 | (A,132,67) | RS1/16S101J |
| R 31 | (A,133,69) | RS1/16S101J |
| R 32 | (B,137,53) | RS1/16S473J |
| R 33 | (A,131,69) | RS1/16S473J |
| R 34 | (B,158,50) | RS1/16S223J |
| R 35 | (A,127,49) | RS1/16S104J |
| R 36 | (A,126,59) | RS1/16S101J |
| R 37 | (A,126,61) | RS1/16S101J |
| R 38 | (A,126,62) | RS1/16S101J |
| R 39 | (A,126,63) | RS1/16S101J |
| R 40 | (A,126,46) | RS1/16S470J |
| R 45 | (B,130,56) | RS1/16S104J |
| R 46 | (B,131,62) | RS1/16S104J |
| R 47 | (B,161,47) | RS1/16S104J |
| R 48 | (B,159,65) | RS1/16S104J |
| R 49 | (B,161,65) | RS1/16S104J |
| R 50 | (B,162,65) | RS1/16S104J |
| R 51 | (B,84,25) | RS1/16SS101J |
| R 52 | (B,84,26) | RS1/16SS101J |
| R 53 | (B,84,27) | RS1/16SS101J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 54 (B,84,28)
R 55 (B,84,30)

RS1/16SS101J
RS1/16SS101J

R 169 (A,125,64)
R 170 (A,111,66)

RS1/16S473J
RS1/16S473J

R 57 (B,84,29)
R 59 (B,83,31)
R 60 (B,84,32)
R 61 (A,60,36)
R 62 (B,84,34)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS0R0J
RS1/16SS101J

R 171 (A,114,66)
R 172 (A,112,66)
R 174 (A,126,67)
R 175 (A,126,68)
R 176 (A,126,57)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S0R0J

R 63 (B,84,33)
R 64 (B,86,38)
R 65 (B,84,36)
R 66 (A,60,41)
R 67 (A,61,41)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J

R 177 (A,121,66)
R 178 (A,121,67)
R 179 (A,115,63)
R 180 (A,149,66)
R 181 (A,119,56)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S101J
RS1/16S473J

R 68 (A,62,41)
R 69 (A,63,41)
R 70 (A,64,41)
R 71 (A,65,41)
R 72 (A,66,41)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J

R 182 (A,121,56)
R 183 (A,119,63)
R 184 (A,119,59)
R 185 (A,116,63)
R 186 (A,118,59)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J

R 73 (A,67,41)
R 74 (A,68,41)
R 75 (A,69,41)
R 76 (A,70,41)
R 77 (A,71,41)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J

R 187 (A,116,59)
R 188 (A,111,69)
R 189 (A,112,69)
R 190 (A,114,69)
R 191 (B,130,65)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J

R 78 (A,72,41)
R 79 (A,73,41)
R 80 (A,74,41)
R 81 (A,75,41)
R 82 (A,76,41)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J

R 192 (A,118,63)
R 193 (A,128,66)
R 194 (A,150,68)
R 196 (A,116,69)
R 201 (A,124,41)

RS1/16S473J
RS1/16S473J
RS1/16S390J
RS1/16S473J
RN1/16SE1502D

R 84 (B,84,37)
R 85 (B,85,31)
R 87 (B,160,63)
R 88 (B,132,49)
R 89 (B,137,46)

RS1/16SS562J
RS1/16SS103J
RS1/16S104J
RS1/16S104J
RS1/16S0R0J

R 202 (A,124,40)
R 210 (A,103,43)
R 211 (A,102,43)
R 212 (A,94,43)
R 213 (A,93,43)

RN1/16SE1202D
RS1/16S104J
RS1/16S104J
RS1/16S104J
RS1/16S104J

R 90 (B,137,45)
R 93 (B,135,44)
R 94 (B,138,44)
R 95 (B,134,49)
R 96 (B,134,48)

RS1/16S0R0J
RS1/16S153J
RS1/16S153J
RS1/16S153J
RS1/16S153J

R 217 (A,125,36)
R 220 (A,126,9)
R 221 (A,126,26)
R 222 (A,126,17)
R 224 (A,84,16)

RS1/16S272J
RS1/16S223J
RS1/16S105J
RS1/16S151J
RS1/16S0R0J

R 97 (A,123,56)
R 98 (A,159,61)
R 101 (B,107,36)
R 102 (B,107,21)
R 103 (B,105,59)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J

R 225 (A,122,9)
R 226 (A,123,9)
R 227 (A,84,19)
R 228 (A,85,19)
R 229 (B,119,17)

RS1/16S104J
RS1/16S104J
RS1/16S104J
RS1/16S104J
RS1/16S560J

R 104 (A,136,23)
R 151 (B,131,33)
R 152 (B,163,35)
R 153 (B,146,44)
R 154 (A,120,56)

RS1/16S220J
RS1/16S0R0J
RS1/16S0R0J
RS1/16S471J
RS1/16S473J

R 230 (A,85,14)
R 232 (A,86,14)
R 237 (B,117,17)
R 238 (B,118,17)
R 240 (A,119,8)

RS1/16S104J
RS1/16S104J
RS1/16S104J
RS1/16S330J
RS1/16S104J

R 155 (A,118,56)
R 156 (A,110,66)
R 157 (A,115,66)
R 158 (A,122,52)
R 159 (B,130,57)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S473J

R 301 (A,140,19)
R 302 (A,140,22)
R 303 (A,141,17)
R 320 (A,111,57)
R 329 (A,114,54)

RS1/16S123J
RS1/16S103J
RS1/16S473J
RS1/16S103J
RS1/16SS821J

R 160 (A,124,61)
R 161 (A,110,69)
R 162 (B,136,57)
R 163 (A,126,58)
R 164 (A,116,66)

RS1/16S473J
RS1/16S103J
RS1/16S473J
RS1/16S560J
RS1/16S473J

R 330 (A,115,50)
R 331 (A,115,52)
R 332 (A,115,51)
R 333 (A,103,61)
R 334 (A,103,59)

RS1/16SS221J
RS1/16SS221J
RS1/16SS472J
RS1/16SS222J
RS1/16SS222J

R 165 (A,126,70)
R 166 (A,108,69)
R 167 (A,121,64)

RS1/16S473J
RS1/16S473J
RS1/16S473J

R 335 (A,102,59)
R 336 (A,101,59)
R 349 (B,161,44)

RS1/16SS221J
RS1/16SS221J
RS1/16S473J

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|-----------------|-----------------|-------------------------------|-------------|-----------------|
| R 350 | (B,152,43) | RS1/16S473J | R 661 | (A,43,88) | RS1/16SS681J |
| R 356 | (A,114,56) | RS1/16S0R0J | R 662 | (A,42,88) | RS1/16SS681J |
| R 360 | (B,101,61) | RS1/16SS473J | R 663 | (A,41,88) | RS1/16SS681J |
| R 361 | (B,101,48) | RS1/16SS473J | R 664 | (B,39,103) | RS1/16SS681J |
| R 362 | (B,101,60) | RS1/16SS473J | R 665 | (A,38,110) | RAB4C681J |
| R 363 | (B,101,49) | RS1/16SS473J | R 666 | (A,42,110) | RAB4C681J |
| R 364 | (B,101,52) | RS1/16SS473J | R 667 | (A,45,109) | RS1/16SS681J |
| R 365 | (B,101,51) | RS1/16SS473J | R 668 | (A,24,127) | RS1/16S104J |
| R 366 | (B,101,50) | RS1/16SS473J | R 670 | (B,41,105) | RS1/16SS103J |
| R 367 | (B,103,49) | RS1/16SS473J | R 671 | (B,41,103) | RS1/16SS103J |
| R 368 | (B,103,51) | RS1/16SS473J | R 672 | (A,35,110) | RS1/16SS681J |
| R 369 | (B,101,59) | RS1/16SS473J | R 673 | (B,41,104) | RS1/16SS102J |
| R 370 | (A,93,72) | RS1/8S0R0J | R 674 | (B,41,102) | RS1/16SS102J |
| R 601 | (A,138,87) | RS1/16S1803D | R 675 | (A,34,99) | RS1/16SS681J |
| R 602 | (B,51,100) | RS1/16SS473J | R 676 | (A,37,91) | RS1/16SS681J |
| R 603 | (A,131,91) | RS1/16SS473J | R 687 | (A,51,122) | RS1/16S470J |
| R 604 | (A,34,94) | RS1/16SS0R0J | R 691 | (B,157,149) | RS1/16S471J |
| R 606 | (A,38,88) | RAB4C681J | R 692 | (B,159,149) | RS1/16S471J |
| R 607 | (A,126,86) | RS1/16SS473J | R 693 | (A,171,139) | RS1/16S681J |
| R 608 | (B,156,135) | RS1/16S563J | R 694 | (A,167,139) | RS1/16S681J |
| R 609 | (B,155,133) | RS1/16S104J | R 695 | (A,170,139) | RS1/16S681J |
| R 610 | (B,152,132) | RS1/16S473J | R 696 | (A,165,139) | RS1/16S681J |
| R 611 | (B,155,135) | RS1/16S472J | R 697 | (A,168,139) | RS1/16S681J |
| R 614 | (A,34,103) (UC) | RS1/16SS473J | R 711 | (B,63,156) | RS1/16S102J |
| R 615 | (A,34,102) (EW) | RS1/16SS473J | R 712 | (B,66,152) | RS1/16S472J |
| R 616 | (A,46,109) | RS1/16SS681J | R 715 | (B,64,149) | RS1/16S472J |
| R 617 | (A,41,86) | RS1/16S0R0J | R 716 | (B,60,150) | RS1/16S153J |
| R 618 | (B,40,100) | RS1/16SS473J | R 730 | (B,74,102) | RS1/16S0R0J |
| R 620 | (B,49,97) | RS1/16SS473J | R 732 | (B,146,144) | RS1/16S102J |
| R 622 | (A,46,113) | RS1/16SS473J | R 733 | (B,147,145) | RS1/16S102J |
| R 623 | (A,48,110) | RAB4C681J | R 734 | (A,140,140) | RS1/16S102J |
| R 625 | (A,35,106) | RS1/16S473J | R 735 | (A,138,140) | RS1/16S102J |
| R 626 | (A,52,110) | RAB4C681J | R 736 | (A,137,140) | RS1/16S0R0J |
| R 627 | (A,60,95) | RS1/16SS473J | R 737 | (A,135,140) | RS1/16S102J |
| R 628 | (A,35,100) | RS1/16SS473J | R 738 | (B,141,148) | RS1/16S681J |
| R 629 | (A,58,95) | RS1/16SS473J | R 739 | (B,140,148) | RS1/16S681J |
| R 631 | (A,132,84) | RS1/16S681J | R 751 | (B,102,93) | RS1/16SS101J |
| R 632 | (A,37,107) | RS1/16SS473J | R 752 | (B,104,94) | RS1/16SS101J |
| R 633 | (A,57,90) | RS1/16SS473J | R 753 | (B,106,96) | RS1/16SS101J |
| R 634 | (B,54,112) | RS1/16S473J | R 754 | (B,97,95) | RS1/16S222J |
| R 636 | (B,56,110) | RS1/16S473J | R 755 | (B,90,96) | RS1/16S222J |
| R 637 | (B,12,89) | RS1/16S473J | R 756 | (B,85,97) | RS1/16S103J |
| R 640 | (B,52,87) | RS1/16SS101J | R 757 | (B,87,101) | RS1/16S272J |
| R 641 | (B,52,88) | RS1/16SS473J | R 758 | (B,83,100) | RS1/16S272J |
| R 642 | (A,55,106) | RS1/16SS681J | R 759 | (B,85,101) | RS1/16S0R0J |
| R 643 | (A,57,99) | RS1/16SS681J | R 760 | (B,81,103) | RS1/16S301J |
| R 644 | (B,49,99) | RS1/16SS681J | R 761 | (B,83,94) | RS1/16S1000D |
| R 645 | (A,57,97) | RS1/16SS681J | R 762 | (B,96,108) | RN1/16SE2002D |
| R 646 | (A,57,93) | RAB4C681J | R 763 | (B,93,108) | RS1/16S473J |
| R 648 | (A,55,88) | RS1/16SS681J | R 764 | (B,104,108) | RS1/16S75R0D |
| R 649 | (A,54,88) | RS1/16SS681J | R 765 | (B,102,108) | RS1/16S75R0D |
| R 650 | (B,57,91) | RS1/16SS104J | R 766 | (B,101,108) | RS1/16S75R0D |
| R 651 | (B,63,93) | RS1/16S681J | R 767 | (B,99,108) | RS1/16S750J |
| R 653 | (A,138,84) | RS1/16S2003F | R 768 | (B,84,104) | RS1/16S62R0D |
| R 654 | (A,34,105) | RS1/16SS473J | R 769 | (B,106,119) | RS1/16S105J |
| R 655 | (A,55,109) | RS1/16SS681J | R 770 | (B,87,122) | RS1/16S101J |
| R 657 | (A,54,85) | RS1/16S104J | R 772 | (B,103,115) | RS1/16S105J |
| R 658 | (A,35,97) | RS1/16SS101J | R 773 | (A,106,98) | RS1/16S750J |
| R 659 | (A,51,88) | RAB4C681J | R 774 | (B,96,115) | RS1/16S101J |
| R 660 | (A,43,87) | RS1/16SS104J | R 776 | (A,123,121) | RS1/16S750J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 777 (A,90,110)
R 778 (A,80,107)

RS1/16S750J
RS1/16S681J

R 865 (B,29,70)
R 866 (B,26,58)

RS1/16S100J
RS1/16S104J

R 779 (A,81,114)
R 780 (B,81,111)
R 781 (A,107,81)
R 782 (B,85,117)
R 783 (B,91,118)

RS1/16S302J
RS1/16S102J
RS1/16S0R0J
RS1/16S105J
RS1/16S105J

R 867 (B,65,45)
R 868 (B,67,71)
R 869 (B,61,58)
R 870 (B,62,42)
R 873 (B,42,57)

RS1/16S473J
RS1/16S100J
RS1/16S104J
RS1/16S473J
RS1/10S150J

R 784 (B,102,113)
R 785 (B,83,118)
R 794 (A,75,105)
R 795 (A,77,103)
R 796 (A,75,103)

RS1/16S105J
RS1/16S105J
RS1/16S563J
RS1/16SS102J
RS1/16S563J

R 874 (B,31,51)
R 875 (B,31,66)
R 876 (B,42,61)
R 877 (B,77,57)
R 878 (B,66,51)

RS1/16S224J
RS1/16S224J
RS1/10S150J
RS1/10S150J
RS1/16S224J

R 805 (B,25,28)
R 806 (B,23,26)
R 807 (B,51,35)
R 808 (B,50,35)
R 810 (B,70,32)

RS1/16S151J
RS1/16S151J
RS1/16S470J
RS1/16S103J
RS1/16S0R0J

R 879 (B,66,65)
R 880 (B,77,61)
R 884 (B,91,147)
R 885 (B,91,150)
R 886 (B,85,144)

RS1/16S224J
RS1/10S150J
RS1/4S561J
RS1/4S561J
RS1/16S103J

R 812 (B,53,35)
R 813 (B,56,106)
R 814 (A,82,96)
R 817 (B,25,30)
R 819 (B,40,85)

RS1/16S470J
RS1/16S0R0J
RS1/16S0R0J
RS1/16S103J
RS1/8S181J

R 891 (B,111,138)
R 892 (B,109,140)
R 893 (B,111,129)
R 894 (B,113,140)
R 895 (B,111,132)

RS1/16S1101D
RS1/16S6800D
RS1/8S102J
RS1/16S471J
RS1/8S102J

R 820 (B,40,83)
R 821 (A,32,83)
R 824 (B,60,34)
R 825 (A,89,55)
R 826 (A,89,57)

RS1/8S181J
RS1/16S103J
RS1/16S0R0J
RS1/10S360J
RS1/10S360J

R 896 (B,104,129)
R 901 (B,148,122)
R 902 (B,38,122)
R 903 (B,40,116)
R 904 (B,39,116)

RS1/16S103J
RS1/16S224J
RS1/16S473J
RS1/16S223J
RS1/16S223J

R 827 (A,89,53)
R 829 (A,119,138)
R 830 (B,9,52)
R 831 (B,8,52)
R 832 (B,8,54)

RS1/16S103J
RS1/16S475J
RS1/16S101J
RS1/16S1600D
RS1/16S5601D

R 905 (B,26,82)
R 906 (B,30,82)
R 911 (B,62,119)
R 912 (B,116,140)
R 913 (B,121,138)

RS1/10S472J
RS1/16S223J
RS1/16S474J
RS1/16S472J
RS1/16S102J

R 833 (B,9,56)
R 834 (B,9,70)
R 835 (B,15,70)
R 836 (B,31,49)
R 837 (B,27,48)

RS1/16S1001D
RS1/16S331J
RS1/16S154J
RS1/16S3300D
RS1/16S101J

R 914 (B,62,111)
R 915 (B,66,119)
R 916 (B,64,119)
R 917 (B,66,98)
R 918 (B,67,99)

RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16S0R0J
RS1/16S471J

R 838 (B,27,49)
R 839 (B,25,49)
R 840 (B,26,51)
R 841 (B,26,54)
R 842 (B,31,67)

RS1/16S3001D
RS1/16S1001D
RS1/16S102J
RS1/16S104J
RS1/16S6800D

R 919 (A,112,138)
R 920 (B,68,133)
R 921 (B,62,117)
R 922 (B,87,135)
R 925 (A,69,109)

RS1/16S475J
RS1/16S101J
RS1/16S103J
RS1/16S0R0J
RS1/16S102J

R 843 (B,27,67)
R 844 (B,25,68)
R 845 (B,27,69)
R 846 (B,26,66)
R 847 (B,66,48)

RS1/16S5601D
RS1/16S1001D
RS1/16S101J
RS1/16S102J
RS1/16S5600D

R 926 (A,69,110)
R 927 (B,68,131)
R 928 (B,67,134)
R 929 (B,63,135)
R 936 (B,66,91)

RS1/16S103J
RS1/16S471J
RS1/16S103J
RS1/10S103J
RS1/16S820J

R 848 (B,63,48)
R 849 (B,63,49)
R 850 (B,60,49)
R 851 (B,61,51)
R 852 (B,66,69)

RS1/16S2401D
RS1/16S101J
RS1/16S1601D
RS1/16S152J
RS1/16S1200D

R 937 (B,69,91)
R 938 (B,114,138)
R 939 (B,8,49)
R 940 (B,31,47)
R 941 (B,33,68)

RS1/16S820J
RS1/16S561J
RS1/16S0R0J
RS1/16S0R0J
RS1/16S0R0J

R 853 (B,63,69)
R 854 (B,61,53)
R 855 (B,63,68)
R 856 (B,60,68)
R 857 (B,61,66)

RS1/16S1001D
RS1/16S104J
RS1/16S101J
RS1/16S1001D
RS1/16S152J

R 942 (B,66,46)
R 943 (B,68,68)
R 944 (B,26,63)
R 945 (B,61,63)
R 946 (B,37,116)

RS1/16S0R0J
RS1/16S0R0J
RS1/16S104J
RS1/16S104J
RS1/16S4701D

R 858 (B,21,67)
R 859 (B,16,57)
R 861 (B,9,47)

RS1/16S100J
RS1/16S184J
RS1/10S100J

R 952 (A,78,95)
R 954 (B,57,149)
R 962 (A,31,95)

RS1/16S473J
RS1/16S103J
RS1/16S103J

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|------------------|-----------------|-------------------------------|-------------|-----------------|
| R 971 | (B,17,127) | RS1/16S824J | R 2478 | (B,143,101) | RS1/16S472J |
| R 972 | (B,16,131) | RS1/16S102J | R 2479 | (B,143,103) | RS1/16S472J |
| | | | R 2480 | (B,145,119) | RS1/16S472J |
| R 973 | (B,21,125) | RS1/16S472J | | | |
| R 974 | (B,18,122) | RS1/8S271J | R 2481 | (B,143,115) | RS1/16S472J |
| R 975 | (B,18,119) | RS1/8S751J | R 2482 | (B,143,106) | RS1/16S472J |
| R 977 | (B,30,126) | RS1/16S103J | R 2483 | (B,143,112) | RS1/16S472J |
| R 978 | (B,32,126) | RS1/16S103J | R 2484 | (B,146,104) | RS1/16S472J |
| | | | R 2485 | (B,146,114) | RS1/16S472J |
| R 979 | (A,8,47) | RS1/10S0R0J | | | |
| R 981 | (A,48,72) | RS1/10S0R0J | R 2486 | (B,148,103) | RS1/16S472J |
| R 982 | (A,85,71) | RS1/10S0R0J | R 2487 | (B,149,116) | RS1/16S472J |
| R 983 | (B,14,44) | RS1/10S102J | R 2488 | (B,148,101) | RS1/16S471J |
| R 2403 | (A,135,123) | RS1/16S102J | R 2489 | (B,149,117) | RS1/16S471J |
| | | | R 2492 | (B,24,110) | RS1/16S223J |
| R 2404 | (B,128,135) | RS1/16S473J | | | |
| R 2407 | (B,128,126) | RS1/16SS473J | R 2493 | (B,25,114) | RS1/16S473J |
| R 2409 | (B,131,133) | RS1/16S473J | R 2496 | (B,31,112) | RS1/16S103J |
| R 2410 | (B,131,128) | RS1/16SS473J | R 2497 | (B,23,117) | RS1/4S102J |
| R 2411 | (B,133,135) | RS1/16S473J | R 2499 | (B,23,123) | RS1/16S103J |
| | | | R 2500 | (B,24,126) | RS1/16S103J |
| R 2416 | (B,132,126) | RS1/16SS473J | | | |
| R 2417 | (B,109,103) | RS1/16S104J | R 2501 | (B,29,142) | RS1/16S221J |
| R 2418 | (B,110,107) | RS1/16S102J | R 2502 | (B,26,139) | RS1/16S102J |
| R 2419 | (B,133,123) | RS1/16SS473J | R 2503 | (B,31,142) | RS1/16S101J |
| R 2420 | (B,133,138) | RS1/16S473J | R 2551 | (A,14,140) | RS1/16SS101J |
| | | | R 2552 | (A,15,143) | RS1/16SS621J |
| R 2421 | (B,110,109) | RS1/16S473J | | | |
| R 2422 | (B,135,137) | RS1/16S473J | R 2553 | (A,14,145) | RS1/16SS473J |
| R 2423 | (B,135,124) | RS1/16SS473J | R 2555 | (A,10,146) | RS1/16SS361J |
| R 2424 | (B,112,111) | RS1/16S473J | R 2556 | (B,137,119) | RS1/16S473J |
| R 2425 | (B,136,137) | RS1/16S473J | R 2557 | (B,137,121) | RS1/16S473J |
| | | | R 2558 | (B,130,120) | RS1/16SS473J |
| R 2426 | (B,136,124) | RS1/16SS473J | | | |
| R 2428 | (B,116,114) | RS1/16S0R0J | R 2566 | (A,128,105) | RS1/16SS101J |
| R 2432 | (B,119,105) | RS1/16S473J | R 2567 | (A,128,106) | RS1/16SS101J |
| R 2433 | (B,115,105) | RS1/16S473J | R 2568 | (A,128,107) | RS1/16SS101J |
| R 2438 | (A,146,111) | RS1/16S181J | R 2569 | (B,133,121) | RS1/16S102J |
| | | | R 2570 | (B,130,116) | RS1/16S0R0J |
| R 2439 | (B,122,114) | RS1/16S331J | | | |
| R 2440 | (A,145,109) | RS1/16S181J | R 2571 | (B,146,103) | RS1/16S224J |
| R 2441 | (A,145,107) | RS1/16S223J | R 2572 | (B,146,115) | RS1/16S224J |
| R 2444 | (A,145,113) | RS1/16S223J | R 2602 | (A,161,118) | RS1/8S0R0J |
| R 2445 | (A,145,104) | RS1/16S102J | R 2603 | (B,157,105) | RS1/16S102J |
| | | | R 2604 | (B,157,107) | RS1/16S102J |
| R 2446 | (A,144,115) | RS1/16S102J | | | |
| R 2447 | (B,123,112) | RS1/16S104J | R 2606 | (B,162,110) | RS1/16S683J |
| R 2448 | (B,131,114) | RS1/16S473J | R 2608 | (B,161,106) | RS1/16S153J |
| R 2449 | (B,129,114) | RS1/16S101J | R 2610 | (B,164,104) | RS1/16S0R0J |
| R 2450 | (B,131,105) | RS1/16S473J | R 2612 | (B,170,103) | RS1/16S752J |
| | | | R 2613 | (B,160,110) | RS1/16S683J |
| R 2451 | (B,151,92) | RS1/16S152J | | | |
| R 2452 | (B,128,105) | RS1/16S101J | R 2615 | (B,168,103) | RS1/16S394J |
| R 2459 | (A,127,98) (UC) | RS1/16S471J | R 2616 | (B,168,100) | RS1/16S101J |
| | (A,127,98) (EW) | RS1/16S0R0J | R 2617 | (B,164,101) | RS1/16S105J |
| R 2460 | (B,155,92) | RS1/16S104J | R 2618 | (B,162,102) | RS1/16S102J |
| | | | R 2619 | (B,162,100) | RS1/16S472J |
| R 2461 | (B,147,84) | RS1/16S1202D | | | |
| R 2462 | (B,145,88) | RS1/16S1003D | R 2620 | (B,159,102) | RS1/16S152J |
| R 2463 | (A,130,97) | RS1/16S0R0J | R 2621 | (B,159,100) | RS1/16S472J |
| R 2464 | (A,127,114) | RS1/16S0R0J | R 2622 | (B,156,102) | RS1/16S472J |
| R 2465 | (A,130,117) (UC) | RS1/16SS471J | R 2623 | (B,156,100) | RS1/16S472J |
| | (A,130,117) (EW) | RS1/16SS0R0J | R 2624 | (B,161,118) | RS1/16S333J |
| | | | | | |
| R 2470 | (A,127,101) | RS1/16S0R0J | R 2625 | (B,165,116) | RS1/16S683J |
| R 2471 | (A,130,120) | RS1/16S0R0J | R 2626 | (B,163,116) | RS1/16S154J |
| R 2472 | (B,137,104) | RS1/16S331J | R 2627 | (B,162,116) | RS1/16S101J |
| R 2473 | (B,137,115) | RS1/16S331J | R 2628 | (B,133,115) | RS1/16S103J |
| R 2474 | (B,152,82) | RS1/16S101J | R 2629 | (B,134,104) | RS1/16S103J |
| | | | | | |
| R 2475 | (B,140,104) | RS1/16S104J | R 2630 | (B,166,114) | RS1/16S473J |
| R 2476 | (B,140,114) | RS1/16S104J | R 2631 | (B,169,113) | RS1/16S473J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 2701 (B,49,30) RS1/16S222J
 R 2702 (B,58,9) RS1/16S222J
 R 2706 (B,53,18) RS1/16S222J

C 21 (B,148,23) CKSRYB104K16
 C 22 (B,148,25) CKSRYB104K16
 C 23 (B,148,30) CKSRYB104K16
 C 24 (B,148,41) CKSRYB104K16
 C 25 (A,141,37) CKSRYB104K16

R 2707 (B,54,23) RS1/16S102J
 R 2708 (B,53,27) RS1/16S102J
 R 2710 (A,46,20) RS1/16S102J
 R 2711 (A,46,25) RS1/16S102J
 R 2712 (B,51,19) RS1/16S103J

C 26 (A,141,66) CKSRYB104K16
 C 27 (B,152,18) 10μF CCG1171
 C 28 (B,157,16) CKSRYB104K16
 C 29 (B,163,28) CKSRYB104K16
 C 30 (A,158,19) CKSRYF104Z25

R 2715 (B,35,14) RS1/16S223J
 R 2716 (B,43,26) RS1/16S223J
 R 2717 (B,35,13) RS1/16S472J
 R 2718 (B,39,12) RS1/16S103J
 R 2719 (B,39,14) RS1/16S223J

C 31 (B,132,59) CCSRCH9R0D50
 C 32 (B,132,63) CCSRCH9R0D50
 C 33 (A,136,37) CKSRYB104K16
 C 35 (A,136,67) CKSRYB104K16
 C 36 (A,130,66) CKSRYB104K16

R 2720 (B,40,12) RS1/16S472J
 R 2721 (A,36,15) RS1/16S223J
 R 2722 (A,36,14) RS1/16S472J
 R 2723 (A,39,15) (EW) RS1/16S223J
 R 2724 (A,39,14) (EW) RS1/16S472J

C 38 (A,135,33) 10μF CCG1171
 C 39 (A,127,42) CKSRYB104K16
 C 40 (A,127,43) CKSRYB104K16
 C 41 (A,127,51) CKSRYB104K16
 C 42 (B,141,45) CKSRYB104K16

R 2725 (A,43,13) (EW) RS1/16S103J
 R 2726 (A,42,15) (EW) RS1/16S223J
 R 2727 (A,39,23) (UC) RS1/16S0R0J
 R 2729 (A,42,13) (EW) RS1/16S472J
 R 2730 (B,33,102) RS1/16S471J

C 44 (B,137,57) CKSRYB104K16
 C 47 (B,145,66) CKSRYB104K16
 C 49 (B,144,45) CKSRYB104K16
 C 51 (A,149,37) CKSRYB224K10
 C 54 (B,84,38) CCSRCH121J50

R 2731 (B,33,99) RS1/16S471J
 R 2732 (A,38,25) RS1/16S332J
 R 2733 (A,40,25) RS1/16S332J
 R 7021 (A,122,123) RS1/16S820J
 R 7037 (B,145,134) RS1/16S101J

C 55 (B,148,45) CKSRYB104K16
 C 57 (B,152,45) CKSRYB104K16
 C 60 (B,153,66) CKSRYB104K16
 C 63 (B,158,47) CKSRYB104K16
 C 64 (B,158,53) CKSRYB104K16

R 7038 (B,144,136) RS1/16S101J
 R 7039 (B,121,133) RS1/16S750J
 R 7042 (B,114,130) RS1/16S4701D
 R 7043 (B,118,127) RS1/16S4701D
 R 7044 (B,113,124) RS1/16S101J

C 66 (B,158,55) CKSRYB104K16
 C 67 (B,160,56) 10μF CCG1171
 C 68 (A,131,36) 22μF CCG1178
 C 69 (A,131,34) 22μF CCG1178
 C 70 (A,131,31) 22μF CCG1178

R 7045 (B,123,120) RS1/16S102J
 R 7046 (B,115,127) RS1/16S4701D
 R 7047 (B,118,126) RS1/16S4701D
 R 7048 (B,117,116) RS1/16S563J
 R 7049 (B,120,120) RS1/16S473J

C 71 (B,130,62) CKSRYF103Z50
 C 72 (B,163,52) CKSRYF103Z50
 C 73 (B,162,52) CKSRYF104Z25
 C 74 (B,158,62) CKSRYF104Z25
 C 75 (A,157,18) CKSRYF104Z25

CAPACITORS

C 1 (B,132,19) CKSRYB104K16
 C 2 (B,132,23) CKSRYB104K16
 C 3 (B,132,25) CKSRYB104K16
 C 4 (B,132,30) CKSRYB104K16
 C 5 (B,132,42) CKSRYB104K16

C 76 (B,132,28) CKSRYB103K50
 C 77 (B,139,18) CKSRYB103K50
 C 78 (B,146,22) CKSRYB103K50
 C 79 (B,163,31) CKSRYB103K50
 C 80 (B,156,18) CKSRYB103K50

C 6 (A,152,37) CKSRYB104K16
 C 7 (A,157,45) CKSRYB104K16
 C 8 (A,156,50) CKSRYB104K16
 C 9 (A,156,53) CKSRYB104K16
 C 10 (A,157,56) CKSRYB104K16

C 81 (B,148,40) CKSRYB224K10
 C 82 (B,163,23) CKSRYB103K50
 C 96 (B,164,23) CKSRYB224K10
 C 97 (B,164,28) CKSRYB224K10
 C 98 (B,164,31) CKSRYB224K10

C 11 (A,157,61) CKSRYB104K16
 C 12 (B,136,18) 10μF CCG1171
 C 13 (B,146,26) CKSRYB104K16
 C 14 (B,146,30) CKSRYB104K16
 C 15 (A,148,37) CKSRYB104K16

C 101 (A,131,18) CKSRYB104K16
 C 102 (A,135,12) CKSRYB104K16
 C 103 (A,140,26) CKSRYB104K16
 C 104 (A,148,30) CKSRYB104K16
 C 105 (A,156,30) CKSRYB104K16

C 16 (A,145,37) CKSRYB104K16
 C 17 (A,147,67) CKSRYB104K16
 C 18 (A,145,69) CCSRCH100D50
 C 19 (A,143,69) CCSRCH100D50
 C 20 (B,149,19) CKSRYB104K16

C 106 (A,165,30) CKSRYB104K16
 C 107 (A,161,34) CKSRYB104K16
 C 108 (A,161,42) CKSRYB104K16
 C 109 (A,161,51) CKSRYB104K16
 C 110 (B,106,43) 10μF CCG1171

| Circuit Symbol and No. | | | Part No. | Circuit Symbol and No. | | | Part No. |
|------------------------|------------|------|--------------|------------------------|-------------|------|--------------|
| C 111 | (B,107,40) | 10μF | CKSRYB104K16 | C 252 | (A,90,43) | 10μF | CCG1171 |
| C 112 | (B,107,35) | | CKSRYF224Z16 | C 253 | (A,126,15) | | CKSRYF104Z25 |
| C 113 | (B,106,28) | | CCG1171 | C 255 | (A,88,34) | | CKSRYB103K50 |
| C 114 | (B,107,25) | | CKSRYB104K16 | C 256 | (A,88,28) | | CKSRYB103K50 |
| C 115 | (B,107,20) | | CKSRYF224Z16 | C 257 | (A,88,27) | | CKSRYB103K50 |
| C 116 | (B,119,65) | 10μF | CKSRYF104Z25 | C 258 | (A,88,23) | | CKSRYB103K50 |
| C 117 | (B,107,52) | | CCG1171 | C 259 | (A,88,22) | | CKSRYB103K50 |
| C 118 | (B,107,51) | | CKSRYB104K16 | C 260 | (A,88,16) | | CKSRYB103K50 |
| C 119 | (B,119,50) | | CKSRYF104Z25 | C 261 | (A,85,9) | | CKSRYB103K50 |
| C 120 | (B,109,63) | | CKSRYF104Z25 | C 262 | (A,84,9) | | CKSRYB103K50 |
| C 121 | (B,109,58) | | CKSRYF104Z25 | C 301 | (A,141,22) | 10μF | CKSRYF104Z25 |
| C 122 | (B,104,39) | | CKSRYF104Z25 | C 302 | (A,149,22) | | CKSRYB334K10 |
| C 123 | (B,106,55) | | CKSRYF103Z50 | C 303 | (A,142,13) | | CKSRYF104Z25 |
| C 124 | (B,130,41) | | CCSRCH101J50 | C 306 | (A,120,49) | | CKSRYF104Z25 |
| C 125 | (A,166,34) | | CKSRYF104Z25 | C 323 | (A,108,57) | | CCG1171 |
| C 126 | (A,166,51) | | CKSRYF104Z25 | C 324 | (A,97,67) | 10μF | CKSRYB104K16 |
| C 201 | (A,124,39) | | CKSRYB104K16 | C 327 | (A,98,69) | | CCG1171 |
| C 202 | (A,119,43) | | CKSRYB104K16 | C 328 | (A,105,52) | | CKSRYB104K16 |
| C 203 | (A,118,43) | | CKSRYB104K16 | C 329 | (A,103,51) | | CCG1171 |
| C 204 | (A,122,38) | | CKSRYB104K16 | C 330 | (A,91,61) | | CCG1171 |
| C 205 | (A,112,43) | | CKSRYB104K16 | C 331 | (A,93,61) | 10μF | CKSRYB104K16 |
| C 206 | (A,106,42) | | CKSRYB104K16 | C 332 | (A,93,64) | | CKSRYB104K16 |
| C 207 | (A,100,43) | | CKSRYB104K16 | C 339 | (A,91,65) | | CCG1171 |
| C 208 | (A,97,43) | | CKSRYB104K16 | C 341 | (A,161,19) | | CCSRCH101J50 |
| C 209 | (A,88,38) | | CKSRYB104K16 | C 342 | (A,141,15) | | CKSRYF104Z25 |
| C 211 | (A,122,35) | | CKSRYB104K16 | C 344 | (B,146,13) | | CKSRYF103Z50 |
| C 213 | (A,122,33) | | CKSRYB104K16 | C 345 | (B,145,13) | | CKSRYF104Z25 |
| C 214 | (A,124,33) | | CKSRYB104K16 | C 346 | (B,131,13) | | CKSRYF103Z50 |
| C 215 | (A,88,36) | | CKSRYB104K16 | C 347 | (B,119,11) | | CKSRYF103Z50 |
| C 216 | (A,88,33) | | CKSRYB104K16 | C 348 | (B,118,9) | | CKSRYF104Z25 |
| C 217 | (A,88,31) | 10μF | CKSRYB104K16 | C 349 | (B,97,8) | | CKSRYF103Z50 |
| C 220 | (A,126,34) | | CCG1171 | C 350 | (A,94,67) | | CKSRYB104K16 |
| C 221 | (A,122,30) | | CKSRYB104K16 | C 601 | (B,54,98) | | CKSSYB104K10 |
| C 222 | (A,122,27) | | CKSRYB104K16 | C 602 | (A,35,98) | | CKSSYB104K10 |
| C 223 | (A,124,9) | | CKSRYB224K10 | C 603 | (B,44,91) | | CKSSYB104K10 |
| C 224 | (A,122,25) | | CKSRYB104K16 | C 604 | (B,46,91) | | CKSSYB104K10 |
| C 225 | (A,124,30) | | CKSRYB104K16 | C 605 | (B,44,95) | | CKSSYB104K10 |
| C 227 | (A,88,30) | | CKSRYB104K16 | C 606 | (A,35,94) | | CKSRYB104K16 |
| C 228 | (A,88,25) | | CKSRYB104K16 | C 607 | (A,37,86) | | CKSSYB104K10 |
| C 230 | (A,127,26) | | CCSRCH150J50 | C 608 | (B,57,96) | | CKSSYB104K10 |
| C 231 | (A,128,17) | | CCSRCH120J50 | C 609 | (B,150,133) | | CKSRYB104K16 |
| C 232 | (A,122,22) | | CKSRYB104K16 | C 610 | (A,124,90) | | CKSSYB104K10 |
| C 233 | (A,122,19) | | CKSRYB104K16 | C 611 | (B,46,93) | | CKSSYB104K10 |
| C 234 | (A,88,21) | | CKSRYB104K16 | C 612 | (A,133,87) | | CKSSYB104K10 |
| C 235 | (A,88,19) | | CKSRYB104K16 | C 617 | (B,56,89) | | CKSQYB225K10 |
| C 237 | (A,123,16) | | CKSRYB104K16 | C 620 | (B,46,104) | | CKSRYF104Z25 |
| C 238 | (A,123,14) | | CKSRYB104K16 | C 623 | (B,50,88) | | CKSSYB104K10 |
| C 239 | (A,88,18) | | CKSRYB104K16 | C 624 | (B,51,104) | | CKSRYF104Z25 |
| C 240 | (A,88,15) | | CKSRYB104K16 | C 626 | (B,51,83) | | CKSSYB103K16 |
| C 241 | (A,88,13) | | CKSRYB104K16 | C 630 | (A,33,98) | | CCSRCH101J50 |
| C 242 | (A,116,9) | | CKSRYB104K16 | C 636 | (A,24,83) | | CKSRYF104Z25 |
| C 243 | (A,113,9) | | CKSRYB104K16 | C 637 | (A,26,98) | | CKSRYF104Z25 |
| C 244 | (A,109,9) | | CKSRYB104K16 | C 638 | (B,18,105) | | CKSRYF104Z25 |
| C 245 | (A,106,9) | | CKSRYB104K16 | C 639 | (A,28,104) | | CKSRYF104Z25 |
| C 246 | (A,103,9) | | CKSRYB104K16 | C 640 | (B,28,99) | | CKSRYF104Z25 |
| C 247 | (A,98,9) | 10μF | CKSRYB104K16 | C 642 | (B,17,100) | 10μF | CKSRYF104Z25 |
| C 248 | (A,93,9) | | CKSRYB104K16 | C 643 | (B,27,97) | | CKSRYF104Z25 |
| C 249 | (A,88,10) | | CCG1171 | C 644 | (A,28,121) | | CKSRYF104Z25 |
| C 250 | (A,108,44) | | CCG1171 | C 645 | (A,28,112) | | CCG1173 |
| C 251 | (A,124,27) | | CCG1171 | C 647 | (A,19,113) | | CCG1173 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A C 648 (A,48,121) CKSRYF104Z25
 C 670 (A,39,86) CKSSYB104K10
 C 671 (A,35,99) CKSSYB104K10
 C 672 (A,35,96) CKSSYB104K10
 C 673 (B,41,106) CKSSYB104K10

C 782 (A,109,121) CKSRYB104K16
 C 783 (A,106,116) CEVW101M16
 C 784 (A,105,121) CKSRYB103K50
 C 785 (B,104,119) CKSQYB225K10
 C 786 (A,120,116) CEVW101M16

C 675 (A,138,86) CKSSYB104K10
 C 691 (B,157,152) CKSRYB102K50
 C 692 (B,157,143) CKSRYB104K16
 C 693 (B,160,146) CKSQYB105K16
 C 694 (B,159,142) CKSQYB105K16

C 787 (A,114,116) CEVW220M6R3
 C 788 (B,88,105) CKSRYB104K16
 C 790 (B,78,117) CKSRYB104K16
 C 791 (B,77,115) CKSYF106Z10
 C 792 (B,100,122) CKSRYB104K16

B C 695 (B,167,149) CKSQYB105K16
 C 696 (B,172,152) CKSRYB102K50
 C 697 (B,161,136) CKSQYB105K16
 C 698 (B,164,136) CKSQYB105K16
 C 699 (B,170,135) CKSRYB102K50

C 793 (B,102,123) CKSYF106Z10
 C 794 (B,108,121) CKSYF106Z10
 C 795 (A,80,103) CKSQYB225K10
 C 796 (A,76,101) CKSQYB225K10
 C 797 (B,88,107) 10μF CCG1171

C 700 (B,167,135) CKSRYB102K50
 C 701 (B,169,135) CKSRYB102K50
 C 702 (B,166,135) CKSRYB102K50
 C 706 (B,60,151) CKSRYB104K25
 C 732 (B,154,144) CKSRYB102K50

C 798 (B,109,118) CKSRYB104K16
 C 799 (B,75,112) CKSRYB104K16
 C 800 (B,96,118) CKSRYB104K16
 C 801 (B,29,31) CKSRYB103K50
 C 802 (A,30,28) CEVW101M16

C 733 (B,151,144) CKSRYB102K50
 C 734 (B,148,134) CKSRYB102K50
 C 735 (B,142,139) CKSRYB102K50
 C 736 (B,135,148) CKSRYF104Z25
 C 737 (A,131,133) CKSRYF104Z25

C 803 (B,26,80) CKSQYB225K10
 C 804 (A,42,32) CEVW101M16
 C 805 (B,50,37) CKSRYB103K50
 C 806 (B,63,78) CKSRYB103K50
 C 807 (A,65,83) CEVW470M16

C 738 (A,128,133) CKSRYF104Z25
 C 739 (B,133,152) CKSRYF104Z25
 C 740 (B,135,152) CKSRYF104Z25
 C 741 (B,138,151) CKSRYF104Z25
 C 748 (B,86,89) CKSSYB103K16

C 808 (B,69,79) CKSRYF334Z16
 C 809 (A,124,134) CKSRYB103K50
 C 810 (A,121,129) CEVW101M16
 C 811 (A,68,72) CKSRYF104Z25
 C 812 (A,44,81) CKSRYB103K50

C 749 (B,87,92) CKSQYB225K10
 C 751 (B,104,96) CKSRYB104K16
 C 752 (B,102,96) CKSRYB104K16
 C 753 (B,100,96) CKSRYB104K16
 D C 754 (B,99,94) CCSRCH5R0C50

C 813 (A,49,82) CEVW101M16
 C 814 (A,32,88) CEVW101M16
 C 815 (A,92,54) CKSRYB103K50
 C 816 (A,97,53) CEVW101M16
 C 817 (B,9,54) CKSRYB473K50

C 755 (B,94,96) CCSRCH470J50
 C 756 (B,95,96) CKSRYF104Z25
 C 757 (A,93,96) CEVQW470M16
 C 758 (B,92,92) CKSRYB105K6R3
 C 761 (B,95,108) CCSRCH220J50

C 818 (B,12,70) CKSRYB103K50
 C 819 (B,10,68) CCSRCH101J50
 C 820 (B,8,68) CKSRYB224K16
 C 821 (B,31,48) CKSRYB473K50
 C 822 (B,28,52) CCSRCH101J50

C 762 (A,87,96) CEVW100M16
 C 763 (B,92,108) CKSRYF104Z25
 C 764 (A,101,105) CEVW221M4
 C 765 (A,94,105) CEVW221M4
 C 766 (A,86,105) CEVW221M4

C 823 (B,26,52) CKSRYB104K16
 C 824 (B,31,69) CKSRYB223K50
 C 825 (B,28,65) CCSRCH101J50
 C 826 (B,26,64) CKSRYB104K16
 C 827 (B,66,49) CKSRYB153K50

E C 767 (A,111,104) CEVW221M4
 C 768 (B,98,108) CKSRYB105K6R3
 C 769 (A,99,96) CEVQW470M16
 C 770 (B,94,93) CKSRYB104K16
 C 771 (A,102,120) CKSRYB104K16

C 828 (B,63,51) CCSRCH101J50
 C 829 (B,61,52) CKSRYB104K16
 C 830 (B,66,68) CKSRYB153K50
 C 831 (B,63,65) CCSRCH101J50
 C 832 (B,61,65) CKSRYB104K25

C 772 (A,99,116) CEVW101M16
 C 773 (B,85,120) CKSQYB225K10
 C 774 (B,92,121) CKSQYB225K10
 C 775 (A,96,121) CKSRYB103K50
 C 776 (B,106,109) CKSQYB225K10

C 833 (B,13,70) CCSRCH330J50
 C 834 (B,16,70) CKSRYB105K10
 C 835 (B,20,70) 4.7μF CCG1111
 C 836 (B,16,59) CKSRYF104Z25
 C 837 (B,9,64) CKSYB475K16

F C 777 (A,86,116) CEVW101M16
 C 778 (A,92,115) CEVW220M6R3
 C 779 (B,83,114) CKSYF106Z10
 C 780 (B,88,109) CKSQYB225K10
 C 781 (B,81,115) CKSQYB225K10

C 838 (B,12,59) CKSRYF474Z16
 C 839 (A,15,45) 220μF/10V CCH1409
 C 840 (A,17,61) 10μF CCG1173
 C 841 (B,25,72) 4.7μF CCG1111
 C 842 (B,26,55) CKSRYB103K50

| <u>Circuit Symbol and No.</u> | | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | | <u>Part No.</u> |
|-------------------------------|-------------------------|--|-----------------|-------------------------------|-----------------|--|-----------------|
| C 843 | (B,26,57) | | CCSRCH470J50 | C 909 | (A,96,134) | | CKSRYF104Z25 |
| C 844 | (B,26,60) | | CKSRYB105K10 | C 910 | (B,59,134) | | CKSRYB104K25 |
| C 845 | (B,26,62) | | CKSRYB103K50 | C 914 | (A,82,145) | | CKSRYF104Z25 |
| C 846 | (B,64,72) 4.7μF | | CCG1111 | C 916 | (B,54,132) | | CKSQYB104K25 |
| C 847 | (B,61,55) | | CKSRYB103K50 | C 918 | (B,29,26) | | CKSRYB103K50 |
| C 848 | (B,61,56) | | CCSRCH470J50 | C 919 | (B,70,93) | | CKSRYB104K25 |
| C 849 | (B,61,59) | | CKSRYB105K10 | C 920 | (B,118,141) | | CKSRYF104Z25 |
| C 850 | (B,61,62) | | CKSRYB103K50 | C 950 | (B,19,55) 4.7μF | | CCG1111 |
| C 851 | (A,20,57) 10μF | | CCG1173 | C 951 | (B,19,52) 4.7μF | | CCG1111 |
| C 852 | (B,19,49) 4.7μF | | CCG1111 | C 953 | (B,34,49) 4.7μF | | CCG1111 |
| C 853 | (B,34,53) | | CKSRYF474Z16 | C 954 | (A,32,51) 10μF | | CCG1173 |
| C 854 | (B,31,52) | | CKSRYF104Z25 | C 955 | (B,35,68) 4.7μF | | CCG1111 |
| C 855 | (B,31,64) | | CKSRYF104Z25 | C 956 | (A,32,56) 10μF | | CCG1173 |
| C 856 | (B,35,64) | | CKSRYF474Z16 | C 957 | (A,65,56) 10μF | | CCG1173 |
| C 857 | (B,27,46) | | CKSYB475K16 | C 958 | (A,65,51) 4.7μF | | CCG1111 |
| C 858 | (B,69,53) | | CKSRYF474Z16 | C 959 | (A,68,56) 10μF | | CCG1173 |
| C 859 | (B,66,52) | | CKSRYF104Z25 | C 960 | (A,68,51) 4.7μF | | CCG1111 |
| C 860 | (B,66,66) | | CKSRYF104Z25 | C 961 | (A,82,150) | | CKSRYF104Z25 |
| C 861 | (B,69,64) | | CKSRYF474Z16 | C 962 | (A,33,95) | | CKSRYB103K50 |
| C 862 | (B,69,44) | | CKSYB475K16 | C 963 | (B,54,149) | | CKSRYB104K25 |
| C 863 | (B,77,123) | | CKSRYF104Z25 | C 964 | (B,54,150) | | CKSRYB105K10 |
| C 865 | (A,27,54) 10μF | | CCG1173 | C 971 | (B,16,128) | | CKSRYB222K50 |
| C 868 | (B,38,49) 4.7μF | | CCG1111 | C 972 | (B,17,130) | | CKSRYB474K10 |
| C 869 | (A,49,54) 330μF/6.3V | | CCH1366 | C 973 | (B,8,122) | | CKSQYB105K16 |
| C 870 | (B,39,68) 4.7μF | | CCG1111 | C 974 | (A,13,115) | | CKSQYB103K50 |
| C 871 | (A,49,63) 220μF/10V | | CCH1409 | C 975 | (A,19,124) | | CEVQW470M16 |
| C 872 | (A,61,55) 10μF | | CCG1173 | C 981 | (B,74,78) | | CKSRYB103K50 |
| C 873 | (A,61,52) 10μF | | CCG1173 | C 982 | (B,71,78) | | CKSRYF104Z25 |
| C 875 | (B,73,68) 4.7μF | | CCG1111 | C 983 | (B,75,35) | | CKSRYB103K50 |
| C 876 | (A,84,54) 330μF/6.3V | | CCH1366 | C 984 | (B,73,35) | | CKSRYF104Z25 |
| C 877 | (B,72,50) 4.7μF | | CCG1111 | C 985 | (B,64,35) | | CKSRYB103K50 |
| C 878 | (A,86,65) 330μF/6.3V | | CCH1366 | C 986 | (B,62,35) | | CKSRYF104Z25 |
| C 879 | (A,80,127) 220μF/25V | | CCH1356 | C 987 | (A,92,82) | | CKSRYB103K50 |
| C 880 | (B,87,141) | | CKSQYB104K16 | C 988 | (A,93,82) | | CKSRYF104Z25 |
| C 881 | (A,82,137) 2200μF | | CCH1405 | C 989 | (A,92,84) | | CKSRYB103K50 |
| C 882 | (A,106,130) | | CEVW101M16 | C 990 | (A,93,84) | | CKSRYF104Z25 |
| C 883 | (B,34,88) | | CKSRYB103K50 | C 2019 | (B,158,103) | | CKSRYB104K16 |
| C 884 | (A,74,83) | | CEVW101M16 | C 2404 | (B,117,89) | | CKSRYB104K16 |
| C 885 | (A,70,91) | | CKSRYF104Z25 | C 2407 | (B,114,92) | | CKSRYB104K16 |
| C 887 | (A,77,88) | | CKSRYF104Z25 | C 2412 | (A,130,128) | | CEVW101M16 |
| C 888 | (B,108,140) | | CKSRYB103K50 | C 2413 | (B,131,136) | | CKSRYB105K10 |
| C 889 | (B,112,140) | | CKSRYB103K50 | C 2414 | (B,130,125) | | CKSRYB105K10 |
| C 890 | (B,115,140) | | CKSRYF104Z25 | C 2418 | (B,108,105) | | CKSRYB105K6R3 |
| C 891 | (B,148,121) | | CKSRYF104Z25 | C 2419 | (B,133,136) | | CCSRCH330J50 |
| C 892 | (B,69,98) | | CKSRYB103K50 | C 2420 | (B,133,125) | | CCSRCH330J50 |
| C 893 | (A,60,103) | | CEVW101M16 | C 2421 | (B,111,105) | | CKSRYB103K50 |
| C 894 | (B,61,105) | | CKSRYB103K50 | C 2422 | (B,139,137) | | CCSRCH151J50 |
| C 895 | (B,31,88) | | CKSRYB104K16 | C 2423 | (B,139,123) | | CCSRCH151J50 |
| C 896 | (A,117,136) | | CKSRYB103K50 | C 2424 | (B,112,108) | | CCSRCH221J50 |
| C 897 | (A,114,129) | | CEVW101M16 | C 2425 | (B,136,135) | | CCSRCH330J50 |
| C 898 | (A,84,123) | | CKSQYB104K16 | C 2426 | (B,135,125) | | CCSRCH330J50 |
| C 899 | (A,88,128) 220μF/25V | | CCH1356 | C 2431 | (B,112,113) | | CCSRCH471J50 |
| C 900 | (B,90,133) | | CKSQYB104K16 | C 2432 | (B,138,130) | | CKSRYF104Z25 |
| C 901 | (B,99,140) | | CKSRYB103K50 | C 2433 | (A,138,127) | | CEVQW220M16 |
| C 902 | (A,98,127) | | CEVW101M16 | C 2434 | (B,138,134) | | CKSRYB105K6R3 |
| C 903 | (A,152,128) 10000μF/16V | | CCH1412 | C 2435 | (B,138,127) | | CKSRYB105K6R3 |
| C 905 | (A,68,103) | | CEVW101M16 | C 2436 | (B,119,114) | | CKSRYB105K6R3 |
| C 906 | (A,58,110) | | CKSRYB104K16 | C 2437 | (A,151,106) | | CKSRYB102K50 |
| C 907 | (A,58,112) | | CKSRYB473K50 | C 2441 | (A,144,104) | | CKSRYB105K6R3 |
| C 908 | (B,61,134) | | CKSRYF103Z50 | C 2442 | (B,138,125) | | CKSRYB105K6R3 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A C 2443 (B,138,133) CKSRYB105K6R3
 C 2444 (A,144,110) CKSRYB105K6R3
 C 2445 (A,147,98) CEVW470M16
 C 2446 (A,145,102) CKSRYB105K6R3
 C 2447 (A,148,102) CKSRYB104K16

C 2506 (A,18,130) CEVW100M16
 C 2507 (B,39,141) CKSYB475K16
 C 2508 (B,39,139) CKSYB475K16
 C 2509 (A,52,130) CEVW330M25
 C 2510 (A,46,138) CKSRYB473K50

C 2448 (A,143,112) CKSRYB105K6R3
 C 2449 (B,126,111) CKSRYB105K6R3
 C 2450 (A,118,108) CEVQW220M16
 C 2451 (B,132,109) CKSRYF104Z25
 C 2452 (B,146,92) CKSRYB105K6R3

C 2519 (B,170,117) CKSRYF104Z25
 C 2552 (A,13,143) CCSRCH150J50
 C 2553 (A,7,143) CKSRYB104K16
 C 2554 (A,10,143) CKSQYB225K10
 C 2555 (A,12,145) CKSSYB104K10

B C 2453 (A,141,97) CKSYB475K16
 C 2456 (A,141,117) CKSYB475K16
 C 2457 (A,139,97) CKSYB475K16
 C 2458 (A,139,117) CKSYB475K16
 C 2459 (A,136,97) CKSYB475K16

C 2556 (B,131,120) CKSSYB104K10
 C 2557 (B,130,118) CKSSYB103K16
 C 2558 (B,137,118) CKSRYB103K50
 C 2603 (A,162,109) CEVQW220M16
 C 2604 (B,159,109) CKSRYB473K50

C 2460 (A,136,117) CKSYB475K16
 C 2461 (B,156,92) CKSRYB332K50
 C 2462 (A,133,97) CKSYB475K16
 C 2463 (A,133,117) CKSYB475K16
 C 2464 (B,153,92) CKSRYB474K10

C 2605 (B,161,108) CKSRYB473K50
 C 2606 (B,165,104) CKSRYB333K50
 C 2607 (B,168,102) CKSRYB105K6R3
 C 2608 (B,168,105) CCSRCH471J50
 C 2609 (B,169,109) CKSRYF104Z25

C 2465 (B,150,89) CKSRYB104K16
 C 2466 (A,127,109) CKSRYB104K16
 C 2467 (A,127,111) CKSRYB104K16
 C 2468 (A,127,112) CCSRCH100D50
 C 2469 (B,150,86) CKSRYB104K16

C 2610 (A,167,109) CEVQW220M16
 C 2611 (B,167,100) CKSRYB105K6R3
 C 2612 (B,159,118) CKSRYB474K10
 C 2613 (B,167,117) CCSRCH471J50
 C 2614 (B,164,114) CCSRCH680J50

C 2470 (A,127,95) CCSRCH100D50
 C 2471 (B,147,83) CKSRYB104K16
 C 2472 (A,130,115) CCSRCH100D50
 C 2473 (B,148,86) CKSRYB104K16
 C 2474 (A,127,97) CCSRCH100D50

C 2615 (B,159,117) CKSRYB105K6R3
 C 2616 (B,167,115) CKSRYB105K6R3
 C 2617 (B,121,95) CKSRYB104K16
 C 2618 (B,119,111) CKSRYF104Z25
 C 2621 (B,32,121) CKSSYF104Z16

C 2475 (A,129,118) CCSRCH100D50
 C 2476 (A,127,100) CCSRCH100D50
 C 2477 (B,136,104) CKSRYB105K6R3
 C 2478 (B,136,115) CKSRYB105K6R3
 C 2479 (A,158,88) CEVW101M16

C 2637 (B,115,103) CKSQYB105K10
 C 2704 (B,33,13) CKSRYB104K16
 C 2705 (B,40,26) CKSRYB103K50
 C 2706 (B,36,20) CKSRYB104K16
 C 2707 (B,42,30) CKSRYF104Z25

C 2480 (A,124,102) CEVW100M16
 C 2481 (A,150,88) CEVW101M16
 C 2482 (B,155,82) CKSRYB222K50
 C 2483 (B,137,100) 10μF CCG1138
 C 2484 (B,140,103) CKSRYB105K6R3

C 2708 (B,40,20) CKSRYB104K16
 C 2709 (A,36,20) CKSRYB104K16
 C 2710 (A,39,20) (EW) CKSRB104K16
 C 2711 (B,40,88) CKSRYF104Z25
 C 2712 (B,36,103) CKSRYB102K50

C 2485 (B,141,118) 10μF CCG1138
 C 2486 (B,140,115) CKSRYB105K6R3
 C 2487 (B,143,104) CCSRCH101J50
 C 2488 (B,143,114) CCSRCH101J50
 C 2489 (B,133,100) CKSRYB104K16

C 2713 (A,43,20) (EW) CKSRB104K16
 C 7007 (A,68,114) CKSRYF104Z25
 C 7014 (B,117,132) CKSYB106K6R3
 C 7015 (B,121,129) CKSYB106K6R3
 C 7017 (B,115,126) CCSRCK1R0C50

E C 2490 (B,148,104) CCSRCH101J50
 C 2491 (B,149,114) CCSRCH101J50
 C 2492 (B,151,108) CKSRYB104K16
 C 2493 (A,154,104) CEVW100M16
 C 2494 (B,34,125) CKSRYB105K10

C 7018 (B,121,120) CKSRYB105K10
 C 7019 (B,112,120) CKSYF106Z10
 C 7020 (B,114,119) CKSRYB104K16
 C 7021 (A,125,123) CCSRCH102J50
 C 7078 (B,85,114) CKSRYB104K16

C 2495 (B,29,140) CKSRYB105K10
 C 2496 (B,34,127) CKSRYB105K10
 C 2497 (B,31,140) CKSRYB105K10
 C 2498 (B,30,138) CKSRYB105K10
 C 2499 (B,38,126) CKSRYB105K10

C 7092 (B,91,115) CKSRYB104K16

Mother Tuner Unit**Consists of****Relay PCB****Mother PCB****Connector PCB**

F C 2500 (B,33,138) CKSRYB105K10
 C 2501 (B,37,126) CKSRYB105K10
 C 2503 (A,65,125) 2200μF/16V
 C 2504 (A,72,131) 10μF CCG1138
 C 2505 (B,42,139) CKSRYB104K25

Circuit Symbol and No. **Part No.**

JKL

Unit Number: CWM9946(AVIC-N2/XU/UC)

Unit Name: Mother Tuner Unit

MISCELLANEOUS

| | | |
|---------|------------------------|------------------|
| IC 1001 | (A,129,43) IC | NJM2137V |
| IC 1002 | (B,106,27) IC | TA2050FS1 |
| IC 1101 | (A,105,116) IC | HA12240FP |
| IC 1102 | (A,113,109) IC | TA2050FS1 |
| IC 1201 | (A,31,118) IC | NJM2137V |
| IC 1301 | (B,92,25) IC | TA2050FS1 |
| IC 1302 | (A,77,21) IC | NJM2137V |
| IC 1352 | (A,61,11) IC | NJM2137V |
| IC 1401 | (A,53,79) IC | NJM2391DL1-33 |
| IC 1402 | (A,51,107) IC | NJM4558E |
| IC 1501 | (A,76,36) IC | CXA2069Q |
| IC 1551 | (A,97,43) IC | NJM2561F1 |
| IC 1552 | (A,71,58) IC | NJM2561F1 |
| IC 1601 | (A,83,81) IC | TC7SH04FUS1 |
| IC 1603 | (A,83,100) IC | PE5412B |
| IC 1604 | (A,94,87) IC | TC7SH08FUS1 |
| IC 1605 | (A,100,90) IC | TC7SH08FUS1 |
| IC 1607 | (A,92,117) IC | TC7SH08FUS1 |
| IC 1608 | (A,71,95) IC | TC7SH04FUS1 |
| IC 1821 | (A,18,123) IC | NJM2904M |
| IC 1871 | (A,146,80) IC | S-812C33AMC-C2N |
| IC 1872 | (A,153,88) IC | S-L2980A50MC-C7J |
| IC 1901 | (A,166,84) IC | NJM2391DL1-33 |
| IC 1902 | (B,164,61) IC | M5237ML |
| Q 1101 | (A,121,108) Transistor | DTC124EU |
| Q 1102 | (A,120,115) Transistor | 2SA1576 |
| Q 1201 | (A,135,41) Transistor | 2SA1037K |
| Q 1202 | (A,136,45) Transistor | 2SC2412K |
| Q 1551 | (B,80,44) Transistor | 2SA1576 |
| Q 1552 | (B,67,39) Transistor | 2SA1576 |
| Q 1555 | (B,73,51) Transistor | 2SC2412K |
| Q 1556 | (B,71,46) Transistor | 2SC2412K |
| Q 1557 | (A,76,57) Transistor | 2SC2412K |
| Q 1558 | (B,92,48) Transistor | 2SC2412K |
| Q 1559 | (B,63,50) Transistor | FMG12 |
| Q 1581 | (B,59,85) Transistor | 2SA1037K |
| Q 1582 | (B,59,91) Transistor | 2SC4081 |
| Q 1583 | (B,65,88) Transistor | 2SC4081 |
| Q 1601 | (B,114,101) Transistor | 2SC2412K |
| Q 1607 | (A,68,109) Transistor | 2SC4081 |
| Q 1821 | (B,16,118) Transistor | DTC114EU |
| Q 1822 | (B,21,134) Transistor | DTC114WK |
| Q 1871 | (B,150,86) Transistor | DTC114EU |
| Q 1872 | (B,146,83) Transistor | 2SA1037K |
| Q 1881 | (A,9,126) Transistor | DTC114EU |
| Q 1901 | (A,78,77) Transistor | 2SA1036K |
| Q 1902 | (B,136,42) Transistor | 2SA1036K |
| Q 1903 | (A,81,71) Transistor | DTC114EK |
| Q 1904 | (B,146,41) Transistor | DTC114EK |
| Q 1905 | (B,165,34) Transistor | 2SB1260 |
| Q 1906 | (B,158,39) Transistor | DTC114EK |
| Q 1907 | (A,172,61) Transistor | 2SB1629 |
| Q 1908 | (A,173,42) Transistor | 2SD2396 |
| Q 1909 | (A,173,72) Transistor | 2SD2396 |

| Circuit Symbol and No. | Part No. | Circuit Symbol and No. | Part No. |
|-------------------------------|-----------------------|-------------------------------|-----------------|
| Q 1951 | (B,111,85) Transistor | 2SD2098 | |
| Q 1952 | (B,109,45) Transistor | 2SD2098 | |
| Q 2801 | (A,90,25) Transistor | 2SC4081 | |
| Q 2831 | (B,39,12) Transistor | DTC323TU | |
| Q 2832 | (B,41,8) Transistor | DTC323TU | |
| Q 2833 | (B,32,8) Transistor | DTC323TU | |
| Q 2844 | (B,34,12) Transistor | DTC323TU | |
| Q 2845 | (B,29,12) Transistor | DTC323TU | |
| Q 2846 | (B,27,8) Transistor | DTC323TU | |
| Q 2886 | (B,87,26) Transistor | 2SC4081 | |
| D 1001 | (B,138,10) Diode | UDZS6R8(B) | |
| D 1002 | (B,138,17) Diode | UDZS6R8(B) | |
| D 1003 | (B,140,11) Diode | UDZS6R8(B) | |
| D 1004 | (B,135,15) Diode | UDZS6R8(B) | |
| D 1005 | (B,136,9) Diode | UDZS6R8(B) | |
| D 1006 | (B,140,17) Diode | UDZS6R8(B) | |
| D 1007 | (B,133,15) Diode | UDZS6R8(B) | |
| D 1008 | (B,133,8) Diode | UDZS6R8(B) | |
| D 1009 | (B,131,15) Diode | UDZS6R8(B) | |
| D 1010 | (B,131,7) Diode | UDZS6R8(B) | |
| D 1011 | (B,129,15) Diode | UDZS6R8(B) | |
| D 1012 | (B,131,23) Diode | UMZ6R8N | |
| D 1013 | (B,135,22) Diode | MA153 | |
| D 1014 | (B,126,23) Diode | UMZ6R8N | |
| D 1015 | (B,123,22) Diode | UMZ6R8N | |
| D 1016 | (B,126,16) Diode | UDZS6R8(B) | |
| D 1017 | (B,126,9) Diode | UDZS6R8(B) | |
| D 1018 | (B,124,17) Diode | UDZS6R8(B) | |
| D 1019 | (B,122,8) Diode | UMZ6R8N | |
| D 1020 | (B,118,9) Diode | UMZ6R8N | |
| D 1021 | (B,121,18) Diode | UMZ6R8N | |
| D 1022 | (B,117,17) Diode | UMZ6R8N | |
| D 1023 | (B,128,9) Diode | UDZS6R8(B) | |
| D 1101 | (B,116,119) Diode | UMZ6R8N | |
| D 1102 | (B,115,132) Diode | UMZ6R8N | |
| D 1103 | (B,105,129) Diode | DAN202U | |
| D 1104 | (B,105,133) Diode | DAP202U | |
| D 1201 | (A,138,35) Diode | 1SS355 | |
| D 1202 | (A,137,49) Diode | 1SS355 | |
| D 1203 | (A,54,124) Diode | HZU12(B2) | |
| D 1204 | (A,56,124) Diode | HZU12(B2) | |
| D 1205 | (A,43,124) Diode | HZU12(B2) | |
| D 1206 | (A,49,124) Diode | HZU12(B2) | |
| D 1207 | (A,32,131) Diode | UMZ6R8N | |
| D 1208 | (A,35,131) Diode | UMZ6R8N | |
| D 1301 | (B,108,19) Diode | UMZ6R8N | |
| D 1302 | (B,93,14) Diode | UMZ6R8N | |
| D 1303 | (B,70,12) Diode | UMZ6R8N | |
| D 1304 | (B,70,15) Diode | UMZ6R8N | |
| D 1353 | (B,50,8) Diode | UMZ6R8N | |
| D 1354 | (B,48,16) Diode | UMZ6R8N | |
| D 1401 | (A,51,73) Diode | 1SR154-400 | |
| D 1402 | (A,51,70) Diode | 1SR154-400 | |
| D 1403 | (A,52,66) Diode | 1SR154-400 | |
| D 1551 | (B,101,46) Diode | MA153 | |
| D 1552 | (B,69,61) Diode | MA153 | |
| D 1553 | (A,60,54) Diode | DAP202U | |
| D 1580 | (A,70,89) Diode | MA111 | |
| D 1581 | (B,64,92) Diode | DAN202U | |
| D 1582 | (B,67,84) Diode | UDZS8R2(B) | |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

D 1602 (B,110,102) Diode

DAN202U

L 1405 (A,56,92) Inductor

LCYA1R0J2520

D 1821 (A,9,121) Diode S1G-6904G2P

L 1406 (B,59,61) Inductor

LCTAW1R0J2520

D 1822 (A,12,125) Diode UDZS18(B)

L 1501 (A,81,58) Inductor

LCYA100J2520

D 1823 (A,14,125) Diode UDZS18(B)

L 1551 (B,82,55) Inductor

LCTAW101J2520

D 1824 (A,19,115) Diode 1SS355

L 1552 (B,90,52) Inductor

LCTAW100J2520

D 1871 (B,140,87) Diode UDZS5R6(B)

L 1553 (B,103,41) Inductor

LCTAW100J2520

D 1881 (B,10,115) Diode UDZS18(B)

L 1554 (B,75,62) Inductor

LCTAW100J2520

D 1882 (A,58,116) Diode 1SS355

L 1555 (B,83,58) Inductor

LCTAW100J2520

D 1883 (B,10,126) Diode UDZS6R8(B)

L 1601 (A,89,80) Inductor

CTF1379

D 1884 (B,142,110) Diode RB500V-40

L 1602 (B,71,95) Inductor

CTF1379

D 1902 (B,168,42) Diode HZU9R1(B3)

L 1603 (A,98,95) Inductor

CTF1379

D 1903 (B,168,71) Diode UDZS5R6(B)

L 1604 (A,69,105) Inductor

CTF1379

D 1950 (B,105,84) Diode UDZS13(B)

L 1766 (A,80,115) Inductor

CTF1379

D 1951 (B,114,44) Diode UDZS5R6(B)

L 1821 (A,8,117) Inductor

CTF1306

D 2801 (B,26,33) Diode UDZS6R8(B)

L 1841 (A,146,114) Inductor

CTF1334

D 2802 (B,22,35) Diode UDZS6R8(B)

L 1842 (B,148,109) Inductor

CTF1334

D 2811 (B,96,36) Diode UDZS10(B)

L 1849 (B,156,116) Inductor

CTF1393

D 2812 (B,102,36) Diode UDZS10(B)

L 1850 (A,161,113) Inductor

CTF1334

D 2813 (B,76,28) Diode UDZS5R6(B)

L 1851 (B,150,100) Inductor

CTF1334

D 2814 (B,76,26) Diode UDZS5R6(B)

L 1852 (B,140,108) Inductor

CTF1306

D 2886 (B,73,35) Diode S1G-6904G2P

L 1853 (B,132,100) Inductor

CTF1306

D 2887 (B,73,32) Diode S1G-6904G2P

L 1861 (B,170,106) Inductor

CTF1334

ZNR1401 (A,18,34) Surge Protector RCCA-201Q31UA-PI

L 1862 (B,170,96) Inductor

CTF1334

L 1001 (A,141,33) Inductor CTF1334

L 1871 (B,152,79) Inductor

CTF1334

L 1002 (A,142,33) Inductor CTF1334

L 1872 (A,166,90) Inductor

CTF1393

L 1003 (A,142,36) Inductor CTF1334

L 1873 (B,158,88) Inductor

CTF1393

L 1004 (A,143,36) Inductor CTF1334

L 1881 (B,10,117) Inductor

CTF1306

L 1005 (A,133,31) Inductor CTF1306

L 2811 (B,98,34) Inductor

CTF1557

L 1006 (A,135,31) Inductor CTF1306

L 2812 (B,99,22) Inductor

CTF1557

L 1007 (A,136,31) Inductor CTF1306

L 2813 (B,42,19) Inductor

CTF1334

L 1008 (A,136,33) Inductor CTF1306

L 2814 (B,41,17) Inductor

CTF1334

L 1009 (A,116,21) Inductor CTF1306

L 2831 (A,36,16) Inductor

CTF1306

L 1010 (A,118,21) Inductor CTF1306

L 2832 (A,20,22) Inductor

CTF1306

L 1011 (A,118,25) Inductor CTF1306

L 2833 (A,23,21) Inductor

CTF1306

L 1012 (A,117,28) Inductor CTF1306

L 2834 (A,33,20) Inductor

CTF1306

L 1013 (A,121,30) Inductor CTF1334

L 2835 (A,23,23) Inductor

CTF1306

L 1014 (A,122,30) Inductor CTF1334

L 2836 (A,21,21) Inductor

CTF1306

L 1015 (A,124,30) Inductor CTF1334

L 2851 (B,71,21) Inductor

CTF1334

L 1016 (A,123,22) Inductor CTF1382

L 2852 (B,75,21) Inductor

CTF1334

L 1017 (A,127,21) Inductor CTF1334

L 2853 (B,79,20) Inductor

CTF1334

L 1018 (A,127,26) Inductor CTF1382

L 2854 (B,71,19) Inductor

CTF1334

L 1019 (A,128,26) Inductor CTF1382

L 2855 (B,75,19) Inductor

CTF1334

L 1020 (A,130,29) Inductor CTF1334

L 2856 (B,79,18) Inductor

CTF1334

L 1021 (A,132,34) Inductor CTF1334

L 2857 (B,88,11) Inductor

CTF1334

L 1022 (A,128,21) Inductor CTF1334

L 2859 (A,93,17) Inductor

CTF1334

L 1026 (B,122,41) Inductor CTF1399

L 2861 (B,75,23) Inductor

CTF1334

L 1101 (A,105,108) Inductor LCYA2R2J2520

L 2862 (B,82,28) Inductor

CTF1334

L 1102 (A,112,118) Inductor CTF1334

L 2886 (B,82,25) Inductor

CTF1295

L 1103 (A,113,118) Inductor CTF1334

X 1601 (A,86,114) Radiator 12.58MHz

CSS1601

L 1104 (A,117,118) Inductor CTF1334

VR1551 (A,96,48) Semi-fixed 10kΩ(B)

CCP1448

L 1105 (A,115,118) Inductor CTF1334

△FU1202 (A,44,118) Fuse 4A

CEK1288

L 1201 (A,35,113) Inductor CTF1399

△FU1703 (A,86,122) Fuse 4A

CEK1288

L 1301 (B,82,26) Inductor CTF1399

△FU1704 (A,68,124) Fuse 4A

CEK1288

L 1302 (B,90,18) Inductor CTF1334

△FU1951 (A,118,87) Fuse 2A

CEK1284

L 1303 (B,86,12) Inductor CTF1334

△FU2801 (A,24,20) Fuse 5A

CEK1289

L 1304 (B,103,18) Inductor CTF1334

Y 1401 (A,46,44) FM/AM Tuner Unit

CWE1651

L 1305 (B,101,12) Inductor CTF1334

GY1863 (A,169,113) Sensor

CSX1078

L 1351 (A,67,21) Inductor CTF1399

GY1865 (A,167,101) Sensor

CSX1074

L 1401 (B,40,45) Inductor LCTAW4R7J2520

EF1001 (A,139,32) EMI Filter

CCG1082

L 1403 (B,51,79) Inductor LCTAW1R0J2520

EF1201 (A,30,131) EMI Filter

CCG1067

| <u>Circuit Symbol and No.</u> | <u>Part No.</u> |
|-------------------------------|-----------------|
| EF1301 (A,74,17) EMI Filter | CCG1067 |
| EF1351 (A,52,10) EMI Filter | CCG1067 |
| EF1701 (A,91,125) EMI Filter | CCG1067 |
| EF1901 (A,157,29) EMI Filter | CCG1172 |
| EF1902 (A,146,39) EMI Filter | CCG1172 |
| EF1903 (A,152,39) EMI Filter | CCG1172 |
| EF2801 (A,70,32) EMI Filter | CCG1067 |

RESISTORS

| | |
|--------------------|-------------|
| R 1001 (B,127,31) | RS1/16S750J |
| R 1004 (A,128,37) | RS1/16S472J |
| R 1005 (A,129,38) | RS1/16S472J |
| R 1006 (A,126,43) | RS1/16S512J |
| R 1007 (A,125,42) | RS1/16S102J |
| R 1008 (A,123,38) | RS1/16S101J |
| R 1009 (A,125,39) | RS1/16S512J |
| R 1010 (A,111,32) | RS1/16S101J |
| R 1011 (A,111,28) | RS1/16S101J |
| R 1012 (A,109,30) | RS1/16S223J |
| R 1013 (A,109,29) | RS1/16S223J |
| R 1014 (A,109,32) | RS1/16S102J |
| R 1015 (A,109,27) | RS1/16S102J |
| R 1016 (A,129,48) | RS1/16S563J |
| R 1017 (A,126,49) | RS1/16S473J |
| R 1102 (A,101,112) | RS1/16S102J |
| R 1104 (A,104,123) | RS1/10S101J |
| R 1105 (A,102,123) | RS1/10S101J |
| R 1106 (A,103,126) | RS1/10S620J |
| R 1107 (A,113,115) | RS1/16S102J |
| R 1108 (A,115,115) | RS1/16S102J |
| R 1109 (B,112,116) | RS1/16S223J |
| R 1110 (B,116,116) | RS1/16S223J |
| R 1111 (A,111,115) | RS1/16S101J |
| R 1112 (A,117,115) | RS1/16S101J |
| R 1113 (A,120,112) | RS1/16S332J |
| R 1114 (A,120,111) | RS1/16S682J |
| R 1115 (A,120,119) | RS1/10S222J |
| R 1118 (A,101,111) | RS1/16S0R0J |
| R 1119 (A,101,109) | RS1/16S0R0J |
| R 1201 (A,135,36) | RS1/16S473J |
| R 1202 (A,29,117) | RS1/16S563J |
| R 1203 (A,29,114) | RS1/16S473J |
| R 1204 (A,136,38) | RS1/16S473J |
| R 1205 (A,138,42) | RS1/16S473J |
| R 1206 (A,138,39) | RS1/16S473J |
| R 1207 (A,136,48) | RS1/16S473J |
| R 1208 (B,29,118) | RS1/16S512J |
| R 1209 (B,31,118) | RS1/16S102J |
| R 1210 (B,35,119) | RS1/16S101J |
| R 1211 (B,33,121) | RS1/16S512J |
| R 1212 (A,31,123) | RS1/16S472J |
| R 1213 (A,34,123) | RS1/16S472J |
| R 1214 (B,55,126) | RS1/16S0R0J |
| R 1215 (B,57,127) | RS1/16S0R0J |
| R 1216 (B,43,124) | RS1/16S0R0J |
| R 1217 (B,49,124) | RS1/16S0R0J |
| R 1218 (B,30,129) | RS1/16S103J |
| R 1219 (B,32,133) | RS1/16S103J |
| R 1220 (A,33,128) | RS1/16S750J |

| <u>Circuit Symbol and No.</u> | <u>Part No.</u> |
|-------------------------------|-----------------|
| R 1301 (A,82,21) | RS1/16S563J |
| R 1302 (A,80,18) | RS1/16S473J |
| R 1303 (A,85,17) | RS1/16S102J |
| R 1304 (A,99,17) | RS1/16S102J |
| R 1305 (B,86,16) | RS1/16S223J |
| R 1306 (B,100,15) | RS1/16S223J |
| R 1307 (B,88,18) | RS1/16S101J |
| R 1308 (B,100,19) | RS1/16S101J |
| R 1309 (B,77,20) | RS1/16S512J |
| R 1310 (B,81,20) | RS1/16S102J |
| R 1311 (A,75,25) | RS1/16S101J |
| R 1312 (B,78,23) | RS1/16S512J |
| R 1313 (A,72,20) | RS1/16S472J |
| R 1314 (A,72,23) | RS1/16S472J |
| R 1315 (A,72,17) | RS1/16S103J |
| R 1316 (B,78,14) | RS1/16S103J |
| R 1317 (B,75,17) | RS1/16S750J |
| R 1351 (A,65,11) | RS1/16S563J |
| R 1352 (A,66,8) | RS1/16S473J |
| R 1357 (B,61,10) | RS1/16S512J |
| R 1358 (B,65,10) | RS1/16S102J |
| R 1359 (A,58,15) | RS1/16S101J |
| R 1360 (B,62,13) | RS1/16S512J |
| R 1363 (A,56,10) | RS1/16S472J |
| R 1364 (A,56,13) | RS1/16S472J |
| R 1365 (B,52,10) | RS1/16S103J |
| R 1366 (B,51,12) | RS1/16S103J |
| R 1367 (A,53,12) | RS1/16S750J |
| R 1402 (B,47,110) | RS1/16S0R0J |
| R 1403 (B,49,102) | RS1/16S0R0J |
| R 1404 (B,49,59) | RS1/16S681J |
| R 1405 (B,49,56) | RS1/16S681J |
| R 1407 (A,56,106) | RS1/16S103J |
| R 1408 (A,58,106) | RS1/16S103J |
| R 1409 (A,52,111) | RS1/16S273J |
| R 1410 (B,53,102) | RS1/16S273J |
| R 1412 (A,56,110) | RS1/16S183J |
| R 1413 (A,56,108) | RS1/16S183J |
| R 1415 (B,51,107) | RS1/16S753J |
| R 1416 (B,53,109) | RS1/16S753J |
| R 1426 (B,49,81) | RS1/16S681J |
| R 1428 (B,49,54) | RS1/16S681J |
| R 1429 (B,49,64) | RS1/16S681J |
| R 1431 (B,49,61) | RS1/16S681J |
| R 1434 (B,41,48) | RS1/4S0R0J |
| R 1501 (A,63,35) | RS1/16S0R0J |
| R 1502 (A,61,34) | RS1/16S0R0J |
| R 1505 (A,91,30) | RS1/16S562J |
| R 1506 (A,88,26) | RS1/16S562J |
| R 1507 (A,91,34) | RS1/16S562J |
| R 1508 (A,91,35) | RS1/16S562J |
| R 1509 (A,91,40) | RS1/16S562J |
| R 1510 (A,91,41) | RS1/16S562J |
| R 1511 (A,85,47) | RS1/16S101J |
| R 1512 (A,86,47) | RS1/16S101J |
| R 1551 (B,69,34) | RS1/16S0R0J |
| R 1552 (B,69,32) | RS1/16S0R0J |
| R 1553 (B,76,44) | RS1/16S182J |
| R 1554 (B,72,42) | RS1/16S182J |
| R 1555 (B,78,47) | RS1/16S102J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

| | | | | | | |
|---|--------|-------------|-------------|--------|-------------|---------------|
| A | R 1556 | (B,70,39) | RS1/16S102J | R 1638 | (B,71,97) | RS1/16S104J |
| | R 1557 | (B,91,45) | RS1/16S103J | R 1640 | (B,79,109) | RS1/16S681J |
| | R 1558 | (B,76,57) | RS1/16S123J | R 1641 | (A,92,114) | RS1/16S681J |
| | R 1559 | (B,97,50) | RS1/16S123J | R 1642 | (B,86,111) | RS1/16S473J |
| | R 1560 | (B,72,58) | RS1/16S103J | R 1643 | (B,72,108) | RS1/16S473J |
| B | R 1561 | (B,72,35) | RS1/16S473J | R 1644 | (B,80,111) | RS1/16S473J |
| | R 1562 | (B,72,31) | RS1/16S473J | R 1647 | (B,76,109) | RS1/16S473J |
| | R 1563 | (B,69,50) | RS1/16S471J | R 1651 | (B,77,116) | RS1/16S473J |
| | R 1564 | (B,69,47) | RS1/16S471J | R 1652 | (B,79,116) | RS1/16S473J |
| | R 1565 | (B,72,56) | RS1/16S471J | R 1657 | (B,72,110) | RS1/16S473J |
| C | R 1566 | (B,98,47) | RS1/16S471J | R 1658 | (B,72,112) | RS1/16S473J |
| | R 1567 | (A,64,53) | RS1/16S821J | R 1659 | (A,82,79) | RS1/16S473J |
| | R 1568 | (A,69,53) | RS1/16S821J | R 1661 | (A,90,85) | RS1/16S681J |
| | R 1569 | (B,75,34) | RS1/16S821J | R 1662 | (A,87,85) | RS1/16S681J |
| | R 1570 | (B,75,32) | RS1/16S821J | R 1663 | (B,88,88) | RS1/16S681J |
| D | R 1571 | (B,70,53) | RS1/16S104J | R 1664 | (A,88,85) | RS1/16S681J |
| | R 1572 | (B,65,53) | RS1/16S104J | R 1821 | (A,21,122) | RS1/16S0R0J |
| | R 1573 | (A,108,39) | RS1/16S750J | R 1822 | (B,14,123) | RS1/16S333J |
| | R 1574 | (A,67,55) | RS1/16S105J | R 1823 | (A,12,121) | RS1/16S203J |
| | R 1575 | (A,65,68) | RS1/16S750J | R 1824 | (A,20,117) | RS1/16S822J |
| E | R 1576 | (A,70,68) | RS1/16S0R0J | R 1825 | (A,19,113) | RS1/16S202J |
| | R 1580 | (B,98,43) | RS1/16S105J | R 1826 | (A,16,115) | RS1/16S564J |
| | R 1581 | (B,55,85) | RS1/4S821J | R 1827 | (A,17,117) | RS1/16S513J |
| | R 1582 | (B,56,90) | RS1/16S223J | R 1828 | (A,14,119) | RS1/16S513J |
| | R 1583 | (B,62,89) | RS1/16S473J | R 1829 | (B,24,118) | RS1/16S102J |
| F | R 1584 | (B,59,89) | RS1/16S223J | R 1830 | (B,22,117) | RS1/16S102J |
| | R 1585 | (B,70,90) | RS1/16S563J | R 1831 | (B,21,122) | RS1/16S104J |
| | R 1586 | (B,69,86) | RS1/16S223J | R 1832 | (B,21,126) | RS1/16S513J |
| | R 1587 | (B,62,84) | RS1/16S473J | R 1833 | (B,16,127) | RS1/16S473J |
| | R 1588 | (A,70,86) | RS1/16S101J | R 1834 | (B,18,127) | RS1/16S563J |
| G | R 1601 | (B,115,105) | RS1/16S272J | R 1835 | (A,20,128) | RS1/16S104J |
| | R 1602 | (B,117,101) | RS1/16S101J | R 1841 | (A,160,110) | RS1/16S104J |
| | R 1603 | (B,107,102) | RS1/16S333J | R 1843 | (B,144,108) | RS1/16S101J |
| | R 1604 | (B,113,105) | RS1/16S473J | R 1861 | (B,165,122) | RS1/10S105J |
| | R 1607 | (A,90,81) | RS1/16S104J | R 1862 | (B,164,115) | RS1/10S151J |
| H | R 1610 | (A,94,83) | RS1/16S681J | R 1871 | (B,146,79) | RS1/10S103J |
| | R 1611 | (A,100,87) | RS1/16S681J | R 1872 | (B,149,82) | RS1/10S103J |
| | R 1612 | (A,84,85) | RAB4C681J | R 1873 | (B,143,84) | RN1/16SE1001D |
| | R 1613 | (B,97,109) | RS1/16S472J | R 1874 | (B,139,84) | RN1/16SE1101D |
| | R 1614 | (A,94,89) | RS1/16S681J | R 1875 | (B,140,89) | RN1/16SE1001D |
| I | R 1615 | (A,80,86) | RS1/16S473J | R 1881 | (B,10,120) | RS1/4S102J |
| | R 1617 | (A,73,90) | RS1/16S681J | R 1901 | (A,78,74) | RS1/16S102J |
| | R 1618 | (A,96,92) | RAB4C681J | R 1902 | (B,141,42) | RS1/16S102J |
| | R 1619 | (A,98,88) | RS1/16S104J | R 1903 | (A,78,73) | RS1/16S272J |
| | R 1621 | (A,75,82) | RS1/16S470J | R 1904 | (B,144,43) | RS1/16S272J |
| J | R 1622 | (A,76,82) | RS1/16S470J | R 1905 | (B,160,33) | RS1/16S153J |
| | R 1623 | (A,76,86) | RS1/16S103J | R 1906 | (B,157,33) | RS1/4S102J |
| | R 1624 | (A,76,84) | RS1/16S103J | R 1907 | (B,175,41) | RS1/10S271J |
| | R 1625 | (A,96,98) | RAB4C681J | R 1908 | (B,175,63) | RS1/10S221J |
| | R 1626 | (A,72,99) | RAB4C681J | R 1909 | (B,175,45) | RS1/10S271J |
| K | R 1627 | (B,70,92) | RS1/16S563J | R 1910 | (A,167,59) | RS1/10S271J |
| | R 1629 | (A,96,102) | RAB4C681J | R 1911 | (B,175,72) | RS1/16S122J |
| | R 1630 | (A,96,104) | RS1/16S473J | R 1912 | (B,160,58) | RS1/16S0R0J |
| | R 1631 | (A,97,107) | RAB4C681J | R 1950 | (B,111,90) | RS1/4S471J |
| | R 1632 | (A,67,112) | RS1/16S473J | R 1951 | (B,169,65) | RS1/16S432J |
| L | R 1633 | (A,67,107) | RS1/16S473J | R 1952 | (B,169,64) | RS1/16S222J |
| | R 1634 | (A,72,109) | RAB4C681J | R 1953 | (B,170,61) | RS1/16S223J |
| | R 1635 | (A,97,111) | RAB4C681J | R 1954 | (B,109,41) | RS1/16S122J |
| | R 1636 | (A,92,122) | RS1/16S473J | R 2831 | (A,38,17) | RS1/16S820J |
| | R 1637 | (B,97,118) | RS1/16S473J | R 2832 | (A,38,10) | RS1/16S820J |

C

CAPACITORS

E

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 1442 (A,53,60)

CEVW221M16

C 1623 (B,111,105)

CKSRYB103K50

C 1501 (A,62,30)

CKSQYB105K16

C 1821 (A,11,118)

CKSRYB823K16

C 1504 (A,79,25)

CKSQYB105K16

C 1822 (B,17,124)

CKSRYB104K25

C 1505 (A,95,29)

CKSQYB105K16

C 1823 (B,17,122)

CKSRYB103K50

C 1506 (A,90,28)

CKSQYB105K16

C 1824 (A,14,117)

CKSRYB104K16

C 1507 (A,60,47)

CKSQYB105K16

C 1825 (B,23,122)

CKSRYB102K50

C 1508 (A,60,45)

CKSQYB105K16

C 1826 (A,21,119)

CKSRYF104Z25

C 1509 (A,91,32)

CKSQYB105K16

C 1862 (B,161,122)

CKSRYB103K50

C 1510 (A,95,35)

CKSQYB105K16

C 1863 (B,163,111)

CKSYB106K6R3

C 1511 (A,95,37)

CKSQYB105K16

C 1864 (B,168,98)

CKSRYB104K25

C 1512 (A,94,41)

CKSQYB105K16

C 1865 (A,166,94)

CCSRCH102J50

C 1513 (A,90,44)

CKSQYB105K16

C 1866 (A,173,96)

CKSRYB104K16

C 1514 (A,92,44)

CKSQYB105K16

C 1867 (A,174,107)

CKSRYB105K10

C 1515 (A,78,47)

CKSRYB103K50

C 1871 (B,161,87)

CKSRYF103Z50

C 1516 (A,82,52)

CEVW220M16

C 1872 (A,146,77)

CKSRYB104K25

C 1517 (A,61,40)

CEVW100M16

C 1873 (A,147,77)

CKSRYB334K10

C 1551 (B,91,43)

CCSRCH7R0D50

C 1874 (A,163,90)

CKSRYF103Z50

C 1552 (B,79,35)

CKSRYB222K50

C 1875 (A,153,79)

CEVW101M16

C 1553 (B,79,31)

CKSRYB222K50

C 1876 (A,140,78)

CEVW470M16

C 1554 (B,76,48)

CKSRYB222K50

C 1877 (A,154,91)

CKSRYB104K16

C 1555 (B,74,46)

CKSRYB222K50

C 1878 (A,150,88)

CKSRYF104Z25

C 1556 (B,76,56)

CCSRCJ3R0C50

C 1879 (A,156,91)

CKSRYB474K10

C 1557 (A,92,54)

CEVW101M16

C 1880 (A,144,77)

CKSRYB104K25

C 1558 (B,77,52)

CKSRYB103K50

C 1881 (B,10,123)

CKSRYB104K25

C 1559 (B,75,36)

CKSQYB225K10

C 1882 (A,146,88)

CEVW470M16

C 1560 (B,75,30)

CKSQYB225K10

C 1901 (A,158,36)

CEVW101M16

C 1561 (A,70,49)

CEVW100M16

C 1902 (A,145,46)

CEVW101M16

C 1562 (A,65,49)

CEVW100M16

C 1903 (A,78,80)

CKSRYB104K16

C 1563 (B,96,45)

CKSYB475K16

C 1904 (B,132,41)

CKSRYB104K25

C 1564 (A,71,56)

CKSYB475K16

C 1905 (A,143,40)

CKSRYB103K50

C 1565 (A,98,40)

CKSRYB103K50

C 1906 (A,161,30)

CKSRYB103K50

C 1566 (A,74,60)

CKSRYB103K50

C 1907 (B,170,34)

CKSRYB103K50

C 1567 (A,103,35)

CEVW470M16

C 1908 (A,166,31)

CEVW101M16

C 1568 (A,75,65)

CEVW470M16

C 1910 (A,166,45)

CEVW101M16

C 1569 (A,102,48)

CEVW330M10

C 1911 (B,168,61)

CKSRYB104K25

C 1570 (A,103,42)

CEVW101M4

C 1912 (B,169,44)

CKSRYB103K50

C 1571 (A,63,64)

CEVW330M10

C 1913 (B,170,56)

CKSRYB103K50

C 1572 (A,69,64)

CEVW101M4

C 1914 (B,169,39)

CKSRYB103K50

C 1575 (B,80,47)

CKSRYB104K25

C 1915 (A,166,53)

CEVW101M16

C 1576 (B,67,42)

CKSRYB104K25

C 1916 (A,166,38)

CEVW101M16

C 1577 (A,76,51)

CEVW101M16

C 1917 (A,155,46)

CEVW101M16

C 1580 (A,61,88) 22μF

CCG1183

C 1918 (A,155,41)

CKSRYB103K50

C 1601 (B,119,101)

CKSRYB103K50

C 1919 (A,165,74)

CEVW101M16

C 1602 (A,81,82)

CKSRYB104K16

C 1920 (B,169,73)

CKSRYB103K50

C 1603 (A,91,120)

CKSRYB103K50

C 1921 (B,169,69)

CKSRYB103K50

C 1604 (A,84,76)

CEVW100M16

C 1922 (A,173,84)

CKSRYB104K16

C 1605 (A,87,79)

CKSRYB103K50

C 1923 (A,166,65)

CEVW470M16

C 1606 (A,94,120)

CKSRYB222K50

C 1924 (A,173,86)

CKSRYB103K50

C 1607 (A,87,81)

CKSRYB103K50

C 1925 (A,172,91)

CEVW220M16

C 1610 (A,73,93)

CKSRYB102K50

C 1950 (A,122,94)

CEVW101M16

C 1611 (A,95,95)

CKSRYB102K50

C 1951 (B,108,85)

CKSRYB103K50

C 1612 (A,72,106)

CKSRYB102K50

C 1952 (B,115,86)

CKSRYB103K50

C 1613 (A,82,113)

CKSRYB102K50

C 1953 (A,127,87)

CEVW101M16

C 1614 (B,84,111)

CKSRYB105K10

C 1954 (A,113,39)

CEVW101M16

C 1615 (A,90,115)

CKSRYB103K50

C 1955 (B,112,44)

CKSRYB103K50

C 1616 (A,70,93)

CKSRYB104K16

C 1956 (B,104,44)

CKSRYB103K50

C 1619 (A,102,90)

CKSRYB104K16

C 1957 (A,111,47)

CEVW101M16

C 1620 (A,96,86)

CKSRYB104K16

C 2813 (B,23,31)

CKSRYF104Z25

C 1621 (A,94,117)

CKSRYB104K16

C 2814 (B,18,32)

CKSRYF104Z25

C 1622 (B,112,98)

CKSRYB103K50

C 2831 (A,38,20)

CEVW100M16

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|-----------|-----------------|-------------------------------|------------------------|-----------------|
| C 2832 | (A,39,13) | CEVW100M16 | Q 1402 | (B,51,41) Transistor | 2SC3127 |
| C 2833 | (B,42,15) | CKSRYB222K50 | Q 1403 | (B,67,106) Transistor | DTC124EU |
| C 2834 | (B,44,6) | CKSRYB222K50 | Q 1404 | (B,67,103) Transistor | DTC124EU |
| C 2837 | (A,44,7) | CEVW100M16 | Q 1405 | (B,82,86) Transistor | DTC124EU |
| C 2838 | (A,29,20) | CEVW100M16 | Q 1406 | (B,67,99) Transistor | DTC124EU |
| C 2839 | (B,35,5) | CKSRYB222K50 | Q 1551 | (B,80,44) Transistor | 2SA1576 |
| C 2840 | (B,33,15) | CKSRYB222K50 | Q 1552 | (B,67,39) Transistor | 2SA1576 |
| C 2843 | (A,29,13) | CEVW100M16 | Q 1555 | (B,73,51) Transistor | 2SC2412K |
| C 2844 | (A,34,7) | CEVW100M16 | Q 1556 | (B,71,46) Transistor | 2SC2412K |
| C 2845 | (B,28,15) | CKSRYB222K50 | Q 1557 | (A,76,57) Transistor | 2SC2412K |
| C 2846 | (B,28,5) | CKSRYB222K50 | Q 1558 | (B,92,48) Transistor | 2SC2412K |
| C 2849 | (A,92,24) | CKSSYB102K50 | Q 1559 | (B,63,50) Transistor | FMG12 |
| C 2851 | (B,23,33) | CKSRYF103Z50 | Q 1581 | (B,59,85) Transistor | 2SA1037K |
| C 2879 | (A,96,21) | CEVW470M16 | Q 1582 | (B,59,91) Transistor | 2SC4081 |
| C 2880 | (A,73,40) | CKSRYF104Z25 | Q 1583 | (B,65,88) Transistor | 2SC4081 |
| C 2886 | (B,89,25) | CKSRYF104Z25 | Q 1601 | (B,114,101) Transistor | 2SC2412K |
| C 2887 | (B,20,32) | CKSRYF104Z25 | Q 1607 | (A,68,109) Transistor | 2SC4081 |

Mother Tuner Unit**Consists of****Relay PCB****Mother PCB****Connector PCB****JKL****Unit Number:CWM9945(AVIC-X1R/XU/EW)****Unit Name:Mother Tuner Unit****MISCELLANEOUS**

| | | | | | |
|---------|------------------------|------------------|--------|-----------------------|------------|
| IC 1001 | (A,129,43) IC | NJM2137V | Q 1902 | (B,136,42) Transistor | 2SA1036K |
| IC 1002 | (B,106,27) IC | TA2050FS1 | Q 1903 | (A,81,71) Transistor | DTC114EK |
| IC 1101 | (A,105,116) IC | HA12240FP | Q 1904 | (B,146,41) Transistor | DTC114EK |
| IC 1102 | (A,113,109) IC | TA2050FS1 | Q 1905 | (B,165,34) Transistor | 2SB1260 |
| IC 1201 | (A,31,118) IC | NJM2137V | Q 1906 | (B,158,39) Transistor | DTC114EK |
| IC 1301 | (B,92,25) IC | TA2050FS1 | Q 1907 | (A,172,61) Transistor | 2SB1629 |
| IC 1302 | (A,77,21) IC | NJM2137V | Q 1908 | (A,173,42) Transistor | 2SD2396 |
| IC 1352 | (A,61,11) IC | NJM2137V | Q 1909 | (A,173,72) Transistor | 2SD2396 |
| IC 1401 | (A,53,79) IC | NJM2391DL1-33 | Q 1951 | (B,111,85) Transistor | 2SD2098 |
| IC 1402 | (A,51,107) IC | NJM4558E | Q 1952 | (B,109,45) Transistor | 2SD2098 |
| IC 1501 | (A,76,36) IC | CXA2069Q | Q 2801 | (A,90,25) Transistor | 2SC4081 |
| IC 1551 | (A,97,43) IC | NJM2561F1 | Q 2831 | (B,39,12) Transistor | DTC323TU |
| IC 1552 | (A,71,58) IC | NJM2561F1 | Q 2832 | (B,41,8) Transistor | DTC323TU |
| IC 1601 | (A,83,81) IC | TC7SH04FUS1 | Q 2833 | (B,32,8) Transistor | DTC323TU |
| IC 1603 | (A,83,100) IC | PE5411B | Q 2844 | (B,34,12) Transistor | DTC323TU |
| IC 1604 | (A,94,87) IC | TC7SH08FUS1 | Q 2845 | (B,29,12) Transistor | DTC323TU |
| IC 1605 | (A,100,90) IC | TC7SH08FUS1 | Q 2846 | (B,27,8) Transistor | DTC323TU |
| IC 1607 | (A,92,117) IC | TC7SH08FUS1 | Q 2886 | (B,87,26) Transistor | 2SC4081 |
| IC 1608 | (A,71,95) IC | TC7SH04FUS1 | D 1001 | (B,138,10) Diode | UDZS6R8(B) |
| IC 1821 | (A,18,123) IC | NJM2904M | D 1002 | (B,138,17) Diode | UDZS6R8(B) |
| IC 1871 | (A,146,80) IC | S-812C33AMC-C2N | D 1003 | (B,140,11) Diode | UDZS6R8(B) |
| IC 1872 | (A,153,88) IC | S-L2980A50MC-C7J | D 1004 | (B,135,15) Diode | UDZS6R8(B) |
| IC 1901 | (A,166,84) IC | NJM2391DL1-33 | D 1005 | (B,136,9) Diode | UDZS6R8(B) |
| IC 1902 | (B,164,61) IC | M5237ML | D 1006 | (B,140,17) Diode | UDZS6R8(B) |
| Q 1101 | (A,121,108) Transistor | DTC124EU | D 1007 | (B,133,15) Diode | UDZS6R8(B) |
| Q 1102 | (A,120,115) Transistor | 2SA1576 | D 1008 | (B,133,8) Diode | UDZS6R8(B) |
| Q 1201 | (A,135,41) Transistor | 2SA1037K | D 1009 | (B,131,15) Diode | UDZS6R8(B) |
| Q 1202 | (A,136,45) Transistor | 2SC2412K | D 1010 | (B,131,7) Diode | UDZS6R8(B) |
| Q 1401 | (A,38,33) Transistor | 2SC3357 | D 1011 | (B,129,15) Diode | UDZS6R8(B) |
| | | | D 1012 | (B,131,23) Diode | UMZ6R8N |
| | | | D 1013 | (B,135,22) Diode | MA153 |
| | | | D 1014 | (B,126,23) Diode | UMZ6R8N |
| | | | D 1015 | (B,123,22) Diode | UMZ6R8N |
| | | | D 1016 | (B,126,16) Diode | UDZS6R8(B) |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

D 1017 (B,126,9) Diode UDZS6R8(B)

L 1003 (A,142,36) Inductor CTF1334

D 1018 (B,124,17) Diode UDZS6R8(B)

L 1004 (A,143,36) Inductor CTF1334

D 1019 (B,122,8) Diode UMZ6R8N

L 1005 (A,133,31) Inductor CTF1306

D 1020 (B,118,9) Diode UMZ6R8N

L 1006 (A,135,31) Inductor CTF1306

D 1021 (B,121,18) Diode UMZ6R8N

L 1007 (A,136,31) Inductor CTF1306

D 1022 (B,117,17) Diode UMZ6R8N

L 1008 (A,136,33) Inductor CTF1306

D 1023 (B,128,9) Diode UDZS6R8(B)

L 1009 (A,116,21) Inductor CTF1306

D 1101 (B,116,119) Diode UMZ6R8N

L 1010 (A,118,21) Inductor CTF1306

D 1102 (B,115,132) Diode UMZ6R8N

L 1011 (A,118,25) Inductor CTF1306

D 1103 (B,105,129) Diode DAN202U

L 1012 (A,117,28) Inductor CTF1306

D 1104 (B,105,133) Diode DAP202U

L 1013 (A,121,30) Inductor CTF1334

D 1201 (A,138,35) Diode 1SS355

L 1014 (A,122,30) Inductor CTF1334

D 1202 (A,137,49) Diode 1SS355

L 1015 (A,124,30) Inductor CTF1334

D 1203 (A,54,124) Diode HZU12(B2)

L 1016 (A,123,22) Inductor CTF1382

D 1204 (A,56,124) Diode HZU12(B2)

L 1017 (A,127,21) Inductor CTF1334

D 1205 (A,43,124) Diode HZU12(B2)

L 1018 (A,127,26) Inductor CTF1382

D 1206 (A,49,124) Diode HZU12(B2)

L 1019 (A,128,26) Inductor CTF1382

D 1207 (A,32,131) Diode UMZ6R8N

L 1020 (A,130,29) Inductor CTF1334

D 1208 (A,35,131) Diode UMZ6R8N

L 1021 (A,132,34) Inductor CTF1334

D 1301 (B,108,19) Diode UMZ6R8N

L 1022 (A,128,21) Inductor CTF1334

D 1302 (B,93,14) Diode UMZ6R8N

L 1026 (B,122,41) Inductor CTF1399

D 1303 (B,70,12) Diode UMZ6R8N

L 1101 (A,105,108) Inductor LCYA2R2J2520

D 1304 (B,70,15) Diode UMZ6R8N

L 1102 (A,112,118) Inductor CTF1334

D 1353 (B,50,8) Diode UMZ6R8N

L 1103 (A,113,118) Inductor CTF1334

D 1354 (B,48,16) Diode UMZ6R8N

L 1104 (A,117,118) Inductor CTF1334

D 1401 (A,51,73) Diode 1SR154-400

L 1105 (A,115,118) Inductor CTF1334

D 1402 (A,51,70) Diode 1SR154-400

L 1201 (A,35,113) Inductor CTF1399

D 1403 (A,52,66) Diode 1SR154-400

L 1301 (B,82,26) Inductor CTF1399

D 1551 (B,101,46) Diode MA153

L 1302 (B,90,18) Inductor CTF1334

D 1552 (B,69,61) Diode MA153

L 1303 (B,86,12) Inductor CTF1334

D 1553 (A,60,54) Diode DAP202U

L 1304 (B,103,18) Inductor CTF1334

D 1580 (A,70,89) Diode MA111

L 1305 (B,101,12) Inductor CTF1334

D 1581 (B,64,92) Diode DAN202U

L 1351 (A,67,21) Inductor CTF1399

D 1582 (B,67,84) Diode UDZS8R2(B)

L 1401 (B,40,45) Inductor LCTAW4R7J2520

D 1602 (B,110,102) Diode DAN202U

L 1402 (A,28,33) Inductor LCYAR12J2520

D 1801 (B,124,76) Diode HZU3R3(B1)

L 1403 (B,51,79) Inductor LCTAW1R0J2520

D 1821 (A,9,121) Diode S1G-6904G2P

L 1404 (A,32,36) Inductor LCTCR10K2125

D 1822 (A,12,125) Diode UDZS18(B)

L 1405 (A,56,92) Inductor LCYA1R0J2520

D 1823 (A,14,125) Diode UDZS18(B)

L 1406 (B,59,61) Inductor LCTAW1R0J2520

D 1824 (A,19,115) Diode 1SS355

L 1407 (A,44,34) Coil CTC1143

D 1871 (B,140,87) Diode UDZS5R6(B)

L 1408 (B,51,51) Inductor LCTCR10K2125

D 1881 (B,10,115) Diode UDZS18(B)

L 1409 (B,55,44) Inductor LCTCR18K2125

D 1882 (A,58,116) Diode 1SS355

L 1410 (B,55,52) Inductor LCTAW101J2520

D 1883 (B,10,126) Diode UDZS6R8(B)

L 1411 (A,39,27) Coil CTC1142

D 1884 (B,142,110) Diode RB500V-40

L 1412 (B,38,23) Inductor LCTAW101J2520

D 1902 (B,168,42) Diode HZU9R1(B3)

L 1413 (A,49,26) Coil CTC1139

D 1903 (B,168,71) Diode UDZS5R6(B)

L 1501 (A,81,58) Inductor LCYA100J2520

D 1950 (B,105,84) Diode UDZS13(B)

L 1551 (B,82,55) Inductor LCTAW101J2520

D 1951 (B,114,44) Diode UDZS5R6(B)

L 1552 (B,90,52) Inductor LCTAW100J2520

D 2801 (B,26,33) Diode UDZS6R8(B)

L 1553 (B,103,41) Inductor LCTAW100J2520

D 2802 (B,22,35) Diode UDZS6R8(B)

L 1554 (B,75,62) Inductor LCTAW100J2520

D 2811 (B,96,36) Diode UDZS10(B)

L 1555 (B,83,58) Inductor LCTAW100J2520

D 2812 (B,102,36) Diode UDZS10(B)

L 1601 (A,89,80) Inductor CTF1379

D 2813 (B,76,28) Diode UDZS5R6(B)

L 1602 (B,71,95) Inductor CTF1379

D 2814 (B,76,26) Diode UDZS5R6(B)

L 1603 (A,98,95) Inductor CTF1379

D 2886 (B,73,35) Diode S1G-6904G2P

L 1604 (A,69,105) Inductor CTF1379

D 2887 (B,73,32) Diode S1G-6904G2P

L 1766 (A,80,115) Inductor CTF1379

ZNR1401 (A,18,34) Surge Protector RCCA-201Q31UA-PI

L 1801 (B,143,67) Inductor LCTCR22K2125

L 1001 (A,141,33) Inductor CTF1334

L 1802 (B,133,67) Inductor LCTAW1R0J2520

L 1002 (A,142,33) Inductor CTF1334

L 1803 (B,115,77) Inductor LCTAW2R2J2520

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|------------------------------|-----------------|
| L 1804 | (B,121,73) Inductor | LCTAW1R0J2520 |
| L 1821 | (A,8,117) Inductor | CTF1306 |
| L 1841 | (A,146,114) Inductor | CTF1334 |
| L 1842 | (B,148,109) Inductor | CTF1334 |
| L 1843 | (A,147,107) Inductor | CTF1334 |
| L 1844 | (A,147,105) Inductor | CTF1334 |
| L 1845 | (B,148,106) Inductor | CTF1334 |
| L 1846 | (B,148,104) Inductor | CTF1334 |
| L 1847 | (A,147,98) Inductor | CTF1393 |
| L 1848 | (A,155,96) Inductor | CTF1393 |
| L 1849 | (B,156,116) Inductor | CTF1393 |
| L 1850 | (A,161,113) Inductor | CTF1334 |
| L 1851 | (B,150,100) Inductor | CTF1334 |
| L 1852 | (B,140,108) Inductor | CTF1306 |
| L 1853 | (B,132,100) Inductor | CTF1306 |
| L 1861 | (B,170,106) Inductor | CTF1334 |
| L 1862 | (B,170,96) Inductor | CTF1334 |
| L 1871 | (B,152,79) Inductor | CTF1334 |
| L 1872 | (A,166,90) Inductor | CTF1393 |
| L 1873 | (B,158,88) Inductor | CTF1393 |
| L 1874 | (B,128,68) Inductor | CTF1557 |
| L 1881 | (B,10,117) Inductor | CTF1306 |
| L 2811 | (B,98,34) Inductor | CTF1557 |
| L 2812 | (B,99,22) Inductor | CTF1557 |
| L 2813 | (B,42,19) Inductor | CTF1334 |
| L 2814 | (B,41,17) Inductor | CTF1334 |
| L 2831 | (A,36,16) Inductor | CTF1306 |
| L 2832 | (A,20,22) Inductor | CTF1306 |
| L 2833 | (A,23,21) Inductor | CTF1306 |
| L 2834 | (A,33,20) Inductor | CTF1306 |
| L 2835 | (A,23,23) Inductor | CTF1306 |
| L 2836 | (A,21,21) Inductor | CTF1306 |
| L 2851 | (B,71,21) Inductor | CTF1334 |
| L 2852 | (B,75,21) Inductor | CTF1334 |
| L 2853 | (B,79,20) Inductor | CTF1334 |
| L 2854 | (B,71,19) Inductor | CTF1334 |
| L 2855 | (B,75,19) Inductor | CTF1334 |
| L 2856 | (B,79,18) Inductor | CTF1334 |
| L 2857 | (B,88,11) Inductor | CTF1334 |
| L 2859 | (A,93,17) Inductor | CTF1334 |
| L 2861 | (B,75,23) Inductor | CTF1334 |
| L 2862 | (B,82,28) Inductor | CTF1334 |
| L 2886 | (B,82,25) Inductor | CTF1295 |
| X 1601 | (A,86,114) Radiator 12.58MHz | CSS1601 |
| VR1551 | (A,96,48) Semi-fixed 10kΩ(B) | CCP1448 |
| △FU1202 | (A,44,118) Fuse 4A | CEK1288 |
| △FU1703 | (A,86,122) Fuse 4A | CEK1288 |
| △FU1704 | (A,68,124) Fuse 4A | CEK1288 |
| △FU1951 | (A,118,87) Fuse 2A | CEK1284 |
| △FU2801 | (A,24,20) Fuse 5A | CEK1289 |
| GY1865 | (A,167,101) Sensor | CSX1074 |
| GY1863 | (A,169,113) Sensor | CSX1078 |
| Y 1801 | (A,124,70) Tuner Unit | CWE1674 |
| Y 1401 | (A,46,44) FM/AM Tuner Unit | CWE1650 |
| EF1001 | (A,139,32) EMI Filter | CCG1082 |
| EF1201 | (A,30,131) EMI Filter | CCG1067 |
| EF1301 | (A,74,17) EMI Filter | CCG1067 |
| EF1351 | (A,52,10) EMI Filter | CCG1067 |
| EF1701 | (A,91,125) EMI Filter | CCG1067 |
| EF1901 | (A,157,29) EMI Filter | CCG1172 |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|-----------------------|-----------------|
| EF1902 | (A,146,39) EMI Filter | CCG1172 |
| EF1903 | (A,152,39) EMI Filter | CCG1172 |
| EF2801 | (A,70,32) EMI Filter | CCG1067 |

RESISTORS

| | | |
|--------|-------------|-------------|
| R 1001 | (B,127,31) | RS1/16S750J |
| R 1004 | (A,128,37) | RS1/16S472J |
| R 1005 | (A,129,38) | RS1/16S472J |
| R 1006 | (A,126,43) | RS1/16S512J |
| R 1007 | (A,125,42) | RS1/16S102J |
| R 1008 | (A,123,38) | RS1/16S101J |
| R 1009 | (A,125,39) | RS1/16S512J |
| R 1010 | (A,111,32) | RS1/16S101J |
| R 1011 | (A,111,28) | RS1/16S101J |
| R 1012 | (A,109,30) | RS1/16S223J |
| R 1013 | (A,109,29) | RS1/16S223J |
| R 1014 | (A,109,32) | RS1/16S102J |
| R 1015 | (A,109,27) | RS1/16S102J |
| R 1016 | (A,129,48) | RS1/16S563J |
| R 1017 | (A,126,49) | RS1/16S473J |
| R 1102 | (A,101,112) | RS1/16S102J |
| R 1104 | (A,104,123) | RS1/10S101J |
| R 1105 | (A,102,123) | RS1/10S101J |
| R 1106 | (A,103,126) | RS1/10S620J |
| R 1107 | (A,113,115) | RS1/16S102J |
| R 1108 | (A,115,115) | RS1/16S102J |
| R 1109 | (B,112,116) | RS1/16S223J |
| R 1110 | (B,116,116) | RS1/16S223J |
| R 1111 | (A,111,115) | RS1/16S101J |
| R 1112 | (A,117,115) | RS1/16S101J |
| R 1113 | (A,120,112) | RS1/16S332J |
| R 1114 | (A,120,111) | RS1/16S682J |
| R 1115 | (A,120,119) | RS1/10S222J |
| R 1118 | (A,101,111) | RS1/16S0R0J |
| R 1119 | (A,101,109) | RS1/16S0R0J |
| R 1201 | (A,135,36) | RS1/16S473J |
| R 1202 | (A,29,117) | RS1/16S563J |
| R 1203 | (A,29,114) | RS1/16S473J |
| R 1204 | (A,136,38) | RS1/16S473J |
| R 1205 | (A,138,42) | RS1/16S473J |
| R 1206 | (A,138,39) | RS1/16S473J |
| R 1207 | (A,136,48) | RS1/16S473J |
| R 1208 | (B,29,118) | RS1/16S512J |
| R 1209 | (B,31,118) | RS1/16S102J |
| R 1210 | (B,35,119) | RS1/16S101J |
| R 1211 | (B,33,121) | RS1/16S512J |
| R 1212 | (A,31,123) | RS1/16S472J |
| R 1213 | (A,34,123) | RS1/16S472J |
| R 1214 | (B,55,126) | RS1/16S0R0J |
| R 1215 | (B,57,127) | RS1/16S0R0J |
| R 1216 | (B,43,124) | RS1/16S0R0J |
| R 1217 | (B,49,124) | RS1/16S0R0J |
| R 1218 | (B,30,129) | RS1/16S103J |
| R 1219 | (B,32,133) | RS1/16S103J |
| R 1220 | (A,33,128) | RS1/16S750J |
| R 1301 | (A,82,21) | RS1/16S563J |
| R 1302 | (A,80,18) | RS1/16S473J |
| R 1303 | (A,85,17) | RS1/16S102J |
| R 1304 | (A,99,17) | RS1/16S102J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 1305 (B,86,16) RS1/16S223J

R 1506 (A,88,26) RS1/16S562J

R 1306 (B,100,15) RS1/16S223J

R 1507 (A,91,34) RS1/16S562J

R 1307 (B,88,18) RS1/16S101J

R 1508 (A,91,35) RS1/16S562J

R 1308 (B,100,19) RS1/16S101J

R 1509 (A,91,40) RS1/16S562J

R 1309 (B,77,20) RS1/16S512J

R 1510 (A,91,41) RS1/16S562J

R 1310 (B,81,20) RS1/16S102J

R 1511 (A,85,47) RS1/16S101J

R 1311 (A,75,25) RS1/16S101J

R 1512 (A,86,47) RS1/16S101J

R 1312 (B,78,23) RS1/16S512J

R 1551 (B,69,34) RS1/16S0R0J

R 1313 (A,72,20) RS1/16S472J

R 1552 (B,69,32) RS1/16S0R0J

R 1314 (A,72,23) RS1/16S472J

R 1553 (B,76,44) RS1/16S182J

R 1315 (A,72,17) RS1/16S103J

R 1554 (B,72,42) RS1/16S182J

R 1316 (B,78,14) RS1/16S103J

R 1555 (B,78,47) RS1/16S102J

R 1317 (B,75,17) RS1/16S750J

R 1556 (B,70,39) RS1/16S102J

R 1351 (A,65,11) RS1/16S563J

R 1557 (B,91,45) RS1/16S103J

R 1352 (A,66,8) RS1/16S473J

R 1558 (B,76,57) RS1/16S123J

R 1357 (B,61,10) RS1/16S512J

R 1559 (B,97,50) RS1/16S123J

R 1358 (B,65,10) RS1/16S102J

R 1560 (B,72,58) RS1/16S103J

R 1359 (A,58,15) RS1/16S101J

R 1561 (B,72,35) RS1/16S473J

R 1360 (B,62,13) RS1/16S512J

R 1562 (B,72,31) RS1/16S473J

R 1363 (A,56,10) RS1/16S472J

R 1563 (B,69,50) RS1/16S471J

R 1364 (A,56,13) RS1/16S472J

R 1564 (B,69,47) RS1/16S471J

R 1365 (B,52,10) RS1/16S103J

R 1565 (B,72,56) RS1/16S471J

R 1366 (B,51,12) RS1/16S103J

R 1566 (B,98,47) RS1/16S471J

R 1367 (A,53,12) RS1/16S750J

R 1567 (A,64,53) RS1/16S821J

R 1401 (A,25,33) RS1/16S105J

R 1568 (A,69,53) RS1/16S821J

R 1402 (B,47,110) RS1/16S0R0J

R 1569 (B,75,34) RS1/16S821J

R 1403 (B,49,102) RS1/16S0R0J

R 1570 (B,75,32) RS1/16S821J

R 1404 (B,49,59) RS1/16S681J

R 1571 (B,70,53) RS1/16S104J

R 1405 (B,49,56) RS1/16S681J

R 1572 (B,65,53) RS1/16S104J

R 1406 (B,43,32) RS1/16S821J

R 1573 (A,108,39) RS1/16S750J

R 1407 (A,56,106) RS1/16S103J

R 1574 (A,67,55) RS1/16S105J

R 1408 (A,58,106) RS1/16S103J

R 1575 (A,65,68) RS1/16S750J

R 1409 (A,52,111) RS1/16S273J

R 1576 (A,70,68) RS1/16S0R0J

R 1410 (B,53,102) RS1/16S273J

R 1580 (B,98,43) RS1/16S105J

R 1411 (B,47,34) RS1/16S330J

R 1581 (B,55,85) RS1/4S821J

R 1412 (A,56,110) RS1/16S183J

R 1582 (B,56,90) RS1/16S223J

R 1413 (A,56,108) RS1/16S183J

R 1583 (B,62,89) RS1/16S473J

R 1414 (B,55,46) RS1/16S151J

R 1584 (B,59,89) RS1/16S223J

R 1415 (B,51,107) RS1/16S753J

R 1585 (B,70,90) RS1/16S563J

R 1416 (B,53,109) RS1/16S753J

R 1586 (B,69,86) RS1/16S223J

R 1417 (B,55,42) RS1/16S681J

R 1587 (B,62,84) RS1/16S473J

R 1418 (B,55,38) RS1/16S152J

R 1588 (A,70,86) RS1/16S101J

R 1419 (B,41,29) RS1/16S332J

R 1601 (B,115,105) RS1/16S272J

R 1420 (B,50,36) RS1/16S680J

R 1602 (B,117,101) RS1/16S101J

R 1421 (B,53,36) RS1/16S151J

R 1603 (B,107,102) RS1/16S333J

R 1422 (B,50,23) RS1/16S151J

R 1604 (B,113,105) RS1/16S473J

R 1423 (B,46,26) RS1/16S101J

R 1607 (A,90,81) RS1/16S104J

R 1424 (B,53,22) RS1/16S680J

R 1610 (A,94,83) RS1/16S681J

R 1425 (B,72,100) RS1/16S473J

R 1611 (A,100,87) RS1/16S681J

R 1426 (B,49,81) RS1/16S681J

R 1612 (A,84,85) RAB4C681J

R 1427 (B,86,85) RS1/16S473J

R 1613 (B,97,109) RS1/16S472J

R 1428 (B,49,54) RS1/16S681J

R 1614 (A,94,89) RS1/16S681J

R 1429 (B,49,64) RS1/16S681J

R 1615 (A,80,86) RS1/16S473J

R 1430 (B,49,66) RS1/16S681J

R 1617 (A,73,90) RS1/16S681J

R 1431 (B,49,61) RS1/16S681J

R 1618 (A,96,92) RAB4C681J

R 1432 (B,72,102) RS1/16S473J

R 1619 (A,98,88) RS1/16S104J

R 1433 (B,71,106) RS1/16S473J

R 1621 (A,75,82) RS1/16S470J

R 1501 (A,63,35) RS1/16S0R0J

R 1622 (A,76,82) RS1/16S470J

R 1502 (A,61,34) RS1/16S0R0J

R 1623 (A,76,86) RS1/16S103J

R 1505 (A,91,30) RS1/16S562J

R 1624 (A,76,84) RS1/16S103J

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|-------------|-----------------|
| R 1625 | (A,96,98) | RAB4C681J |
| R 1626 | (A,72,99) | RAB4C681J |
| R 1627 | (B,70,92) | RS1/16S563J |
| R 1628 | (A,71,103) | RAB4C681J |
| R 1629 | (A,96,102) | RAB4C681J |
| R 1630 | (A,96,104) | RS1/16S473J |
| R 1631 | (A,97,107) | RAB4C681J |
| R 1632 | (A,67,112) | RS1/16S473J |
| R 1633 | (A,67,107) | RS1/16S473J |
| R 1634 | (A,72,109) | RAB4C681J |
| R 1635 | (A,97,111) | RAB4C681J |
| R 1636 | (A,92,122) | RS1/16S473J |
| R 1637 | (B,97,118) | RS1/16S473J |
| R 1638 | (B,71,97) | RS1/16S104J |
| R 1640 | (B,79,109) | RS1/16S681J |
| R 1641 | (A,92,114) | RS1/16S681J |
| R 1642 | (B,86,111) | RS1/16S473J |
| R 1643 | (B,72,108) | RS1/16S473J |
| R 1644 | (B,80,111) | RS1/16S473J |
| R 1647 | (B,76,109) | RS1/16S473J |
| R 1651 | (B,77,116) | RS1/16S473J |
| R 1652 | (B,79,116) | RS1/16S473J |
| R 1657 | (B,72,110) | RS1/16S473J |
| R 1658 | (B,72,112) | RS1/16S473J |
| R 1659 | (A,82,79) | RS1/16S473J |
| R 1661 | (A,90,85) | RS1/16S681J |
| R 1662 | (A,87,85) | RS1/16S681J |
| R 1663 | (B,88,88) | RS1/16S681J |
| R 1664 | (A,88,85) | RS1/16S681J |
| R 1801 | (B,147,69) | RS1/16S152J |
| R 1802 | (B,144,65) | RS1/16S151J |
| R 1803 | (B,145,63) | RS1/16S681J |
| R 1806 | (B,148,102) | RS1/16S0R0J |
| R 1807 | (B,128,73) | RS1/16S391J |
| R 1808 | (B,132,78) | RS1/16S473J |
| R 1810 | (B,120,68) | RS1/16S221J |
| R 1821 | (A,21,122) | RS1/16S0R0J |
| R 1822 | (B,14,123) | RS1/16S333J |
| R 1823 | (A,12,121) | RS1/16S203J |
| R 1824 | (A,20,117) | RS1/16S822J |
| R 1825 | (A,19,113) | RS1/16S202J |
| R 1826 | (A,16,115) | RS1/16S564J |
| R 1827 | (A,17,117) | RS1/16S513J |
| R 1828 | (A,14,119) | RS1/16S513J |
| R 1829 | (B,24,118) | RS1/16S102J |
| R 1830 | (B,22,117) | RS1/16S102J |
| R 1831 | (B,21,122) | RS1/16S104J |
| R 1832 | (B,21,126) | RS1/16S513J |
| R 1833 | (B,16,127) | RS1/16S473J |
| R 1834 | (B,18,127) | RS1/16S563J |
| R 1835 | (A,20,128) | RS1/16S104J |
| R 1841 | (A,160,110) | RS1/16S104J |
| R 1843 | (B,144,108) | RS1/16S101J |
| R 1861 | (B,165,122) | RS1/10S105J |
| R 1862 | (B,164,115) | RS1/10S151J |
| R 1871 | (B,146,79) | RS1/10S103J |
| R 1872 | (B,149,82) | RS1/10S103J |
| R 1873 | (B,143,84) | RN1/16SE1001D |
| R 1874 | (B,139,84) | RN1/16SE1101D |
| R 1875 | (B,140,89) | RN1/16SE1001D |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|------------|-----------------|
| R 1881 | (B,10,120) | RS1/4S102J |
| R 1901 | (A,78,74) | RS1/16S102J |
| R 1902 | (B,141,42) | RS1/16S102J |
| R 1903 | (A,78,73) | RS1/16S272J |
| R 1904 | (B,144,43) | RS1/16S272J |
| R 1905 | (B,160,33) | RS1/16S153J |
| R 1906 | (B,157,33) | RS1/4S102J |
| R 1907 | (B,175,41) | RS1/10S271J |
| R 1908 | (B,175,63) | RS1/10S221J |
| R 1909 | (B,175,45) | RS1/10S271J |
| R 1910 | (A,167,59) | RS1/10S271J |
| R 1911 | (B,175,72) | RS1/16S122J |
| R 1912 | (B,160,58) | RS1/16S0R0J |
| R 1950 | (B,111,90) | RS1/4S471J |
| R 1951 | (B,169,65) | RS1/16S432J |
| R 1952 | (B,169,64) | RS1/16S222J |
| R 1953 | (B,170,61) | RS1/16S223J |
| R 1954 | (B,109,41) | RS1/16S122J |
| R 2831 | (A,38,17) | RS1/16S820J |
| R 2832 | (A,38,10) | RS1/16S820J |
| R 2833 | (B,42,12) | RS1/16S223J |
| R 2834 | (B,43,8) | RS1/16S223J |
| R 2835 | (B,44,12) | RS1/16S471J |
| R 2836 | (B,45,8) | RS1/16S471J |
| R 2837 | (A,39,7) | RS1/16S820J |
| R 2838 | (A,33,16) | RS1/16S820J |
| R 2839 | (B,35,8) | RS1/16S223J |
| R 2840 | (A,35,12) | RS1/16S223J |
| R 2841 | (B,37,8) | RS1/16S471J |
| R 2842 | (B,32,13) | RS1/16S471J |
| R 2843 | (A,27,16) | RS1/16S820J |
| R 2844 | (A,27,7) | RS1/16S820J |
| R 2845 | (A,30,17) | RS1/16S223J |
| R 2846 | (A,25,8) | RS1/16S223J |
| R 2847 | (B,26,13) | RS1/16S471J |
| R 2848 | (B,30,8) | RS1/16S471J |
| R 2849 | (A,92,23) | RS1/16SS681J |
| R 2850 | (A,89,31) | RS1/16S473J |
| R 2851 | (A,54,9) | RS1/16S0R0J |
| R 2852 | (A,61,10) | RS1/16S0R0J |
| R 2853 | (A,60,9) | RS1/16S0R0J |
| R 2854 | (A,54,7) | RS1/16S0R0J |
| R 2855 | (A,60,5) | RS1/16S0R0J |
| R 2856 | (A,54,5) | RS1/16S0R0J |
| R 2873 | (B,92,10) | RS1/16S0R0J |
| R 2886 | (B,84,28) | RS1/16S473J |
| R 2887 | (B,86,29) | RS1/16S104J |
| R 2888 | (B,80,28) | RS1/10S102J |

CAPACITORS

| | | |
|--------|------------|--------------|
| C 1001 | (B,141,26) | CCSRCH101J50 |
| C 1002 | (B,143,26) | CCSRCH101J50 |
| C 1003 | (B,142,11) | CCSRCH101J50 |
| C 1004 | (B,143,17) | CCSRCH101J50 |
| C 1005 | (B,123,26) | CCSRCH101J50 |
| C 1006 | (B,139,26) | CKSRYF104Z25 |
| C 1007 | (B,121,26) | CCSRCH101J50 |
| C 1008 | (B,137,26) | CKSRYF104Z25 |
| C 1009 | (B,119,26) | CCSRCH101J50 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 1010 (B,135,26) CKSRYF104Z25

C 1363 (A,54,15)

CKSYB106K6R3

C 1011 (B,120,12) CCSRCH471J50

C 1364 (A,53,7)

CKSYB106K6R3

C 1012 (B,133,26) CCSRCH101J50

C 1365 (B,51,14)

CKSRYB473K50

C 1013 (B,118,25) CCSRCH681J50

C 1401 (B,46,107)

CKSQYB225K10

C 1014 (B,131,26) CCSRCH101J50

C 1402 (B,50,100)

CKSQYB225K10

C 1015 (B,120,23) CCSRCH681J50

C 1403 (A,26,36)

CCSRCH270J50

C 1016 (B,129,26) CCSRCH101J50

C 1404 (B,50,88)

CKSYB475K16

C 1017 (B,118,14) CCSRCH681J50

C 1405 (B,42,79)

CKSRYB103K50

C 1018 (B,127,26) CCSRCH101J50

C 1406 (A,28,36)

CCSRCH220J50

C 1019 (A,119,18) CCSRCH681J50

C 1407 (B,42,88)

CKSRYB103K50

C 1020 (B,125,26) CCSRCH101J50

C 1408 (B,42,51)

CKSRYB103K50

C 1022 (A,130,33) CKSYB106K6R3

C 1409 (A,31,33)

CCSRCH270J50

C 1023 (A,126,35) CKSYB106K6R3

C 1410 (A,51,92)

CEVW470M6R3

C 1026 (A,126,39) CCSRCJ3R0C50

C 1411 (A,53,49)

CEVW221M16

C 1027 (A,102,30) CKSRYB105K10

C 1412 (A,33,33)

CCSRCH330J50

C 1028 (A,106,30) CKSRYB105K10

C 1413 (A,35,36)

CCSRCH470J50

C 1029 (A,106,29) CKSRYB105K10

C 1414 (B,39,33)

CKSRYB103K50

C 1030 (A,106,27) CKSRYB105K10

C 1415 (B,57,63)

CKSRYB103K50

C 1031 (A,129,49) CKSRYB105K10

C 1418 (A,57,100)

CEVW100M16

C 1032 (A,122,43) CEVW100M16

C 1419 (B,58,40)

CKSRYB103K50

C 1033 (A,126,46) CKSRYB104K16

C 1420 (B,50,48)

CCSRCH270J50

C 1034 (A,101,22) CEVW100M16

C 1421 (A,50,32)

CKSRYB103K50

C 1035 (A,107,22) CEVW220M16

C 1422 (B,51,45)

CCSRCH150J50

C 1101 (A,103,120) CKSRYB104K16

C 1423 (A,51,85)

CEVW220M16

C 1102 (A,110,101) CEVW100M16

C 1424 (A,56,83)

CKSRYB103K50

C 1103 (A,116,101) CEVW220M16

C 1425 (B,51,105)

CCSRCH6R0D50

C 1106 (B,111,112) CKSRYB105K10

C 1426 (B,86,89)

CKSRYB103K50

C 1107 (B,113,112) CKSRYB105K10

C 1427 (B,53,111)

CCSRCH6R0D50

C 1108 (B,115,112) CKSRYB105K10

C 1428 (B,55,39)

CKSRYB222K50

C 1109 (B,117,112) CKSRYB105K10

C 1429 (A,55,104)

CKSRYB103K50

C 1112 (B,117,123) CCSRCH471J50

C 1430 (A,56,74)

CKSRYB104K16

C 1113 (B,119,121) CCSRCH471J50

C 1431 (A,51,101)

CEVW100M16

C 1117 (B,107,123) CKSRYB104K25

C 1432 (A,34,24)

CKSRYB103K50

C 1201 (A,32,114) CKSRYB104K16

C 1433 (B,49,28)

CKSRYB222K50

C 1202 (A,36,117) CEVW100M16

C 1434 (A,44,23)

CKSRYB222K50

C 1203 (A,27,114) CKSRYB105K10

C 1435 (B,48,22)

CKSRYB222K50

C 1204 (A,138,37) CKSRYB103K50

C 1436 (B,74,104)

CKSRYB103K50

C 1206 (B,33,123) CCSRCJ3R0C50

C 1437 (B,54,48)

CKSRYB103K50

C 1208 (A,35,126) CKSYB106K6R3

C 1442 (A,53,60)

CEVW221M16

C 1209 (A,30,127) CKSYB106K6R3

C 1501 (A,62,30)

CKSQYB105K16

C 1210 (B,33,131) CKSRYB473K50

C 1504 (A,79,25)

CKSQYB105K16

C 1301 (A,90,22) CEVW100M16

C 1505 (A,95,29)

CKSQYB105K16

C 1302 (A,96,22) CEVW220M16

C 1506 (A,90,28)

CKSQYB105K16

C 1303 (A,81,24) CKSRYB104K16

C 1507 (A,60,47)

CKSQYB105K16

C 1304 (A,85,22) CEVW100M16

C 1508 (A,60,45)

CKSQYB105K16

C 1305 (A,82,18) CKSRYB105K10

C 1509 (A,91,32)

CKSQYB105K16

C 1306 (B,86,24) CKSRYB105K10

C 1510 (A,95,35)

CKSQYB105K16

C 1307 (B,86,19) CKSRYB105K10

C 1511 (A,95,37)

CKSQYB105K16

C 1308 (B,96,19) CKSRYB105K10

C 1512 (A,94,41)

CKSQYB105K16

C 1309 (B,96,18) CKSRYB105K10

C 1513 (A,90,44)

CKSQYB105K16

C 1311 (B,77,23) CCSRCJ3R0C50

C 1514 (A,92,44)

CKSQYB105K16

C 1313 (B,74,22) CKSYB106K6R3

C 1515 (A,78,47)

CKSRYB103K50

C 1314 (A,70,19) CKSYB106K6R3

C 1516 (A,82,52)

CEVW220M16

C 1315 (B,99,8) CCSRCH471J50

C 1517 (A,61,40)

CEVW100M16

C 1316 (B,78,16) CKSRYB473K50

C 1551 (B,91,43)

CCSRCH7R0D50

C 1318 (B,95,8) CCSRCH471J50

C 1552 (B,79,35)

CKSRYB222K50

C 1353 (A,65,13) CKSRYB104K16

C 1553 (B,79,31)

CKSRYB222K50

C 1354 (A,64,17) CEVW100M16

C 1554 (B,76,48)

CKSRYB222K50

C 1355 (A,64,8) CKSRYB105K10

C 1555 (B,74,46)

CKSRYB222K50

C 1361 (B,61,13) CCSRCJ3R0C50

C 1556 (B,76,56)

CCSRCJ3R0C50

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|----------------|-----------------|-------------------------------|-------------|-----------------|
| C 1557 | (A,92,54) | CEVW101M16 | C 1866 | (A,173,96) | CKSRYB104K16 |
| C 1558 | (B,77,52) | CKSRYB103K50 | C 1867 | (A,174,107) | CKSRYB105K10 |
| C 1559 | (B,75,36) | CKSQYB225K10 | C 1871 | (B,161,87) | CKSRYF103Z50 |
| C 1560 | (B,75,30) | CKSQYB225K10 | C 1872 | (A,146,77) | CKSRYB104K25 |
| C 1561 | (A,70,49) | CEVW100M16 | C 1873 | (A,147,77) | CKSRYB334K10 |
| C 1562 | (A,65,49) | CEVW100M16 | C 1874 | (A,163,90) | CKSRYF103Z50 |
| C 1563 | (B,96,45) | CKSYB475K16 | C 1875 | (A,153,79) | CEVW101M16 |
| C 1564 | (A,71,56) | CKSYB475K16 | C 1876 | (A,140,78) | CEVW470M16 |
| C 1565 | (A,98,40) | CKSRYB103K50 | C 1877 | (A,154,91) | CKSRYB104K16 |
| C 1566 | (A,74,60) | CKSRYB103K50 | C 1878 | (A,150,88) | CKSRYF104Z25 |
| C 1567 | (A,103,35) | CEVW470M16 | C 1879 | (A,156,91) | CKSRYB474K10 |
| C 1568 | (A,75,65) | CEVW470M16 | C 1880 | (A,144,77) | CKSRYB104K25 |
| C 1569 | (A,102,48) | CEVW330M10 | C 1881 | (B,10,123) | CKSRYB104K25 |
| C 1570 | (A,103,42) | CEVW101M4 | C 1882 | (A,146,88) | CEVW470M16 |
| C 1571 | (A,63,64) | CEVW330M10 | C 1901 | (A,158,36) | CEVW101M16 |
| C 1572 | (A,69,64) | CEVW101M4 | C 1902 | (A,145,46) | CEVW101M16 |
| C 1575 | (B,80,47) | CKSRYB104K25 | C 1903 | (A,78,80) | CKSRYB104K16 |
| C 1576 | (B,67,42) | CKSRYB104K25 | C 1904 | (B,132,41) | CKSRYB104K25 |
| C 1577 | (A,76,51) | CEVW101M16 | C 1905 | (A,143,40) | CKSRYB103K50 |
| C 1580 | (A,61,88) 22μF | CCG1183 | C 1906 | (A,161,30) | CKSRYB103K50 |
| C 1601 | (B,119,101) | CKSRYB103K50 | C 1907 | (B,170,34) | CKSRYB103K50 |
| C 1602 | (A,81,82) | CKSRYB104K16 | C 1908 | (A,166,31) | CEVW101M16 |
| C 1603 | (A,91,120) | CKSRYB103K50 | C 1910 | (A,166,45) | CEVW101M16 |
| C 1604 | (A,84,76) | CEVW100M16 | C 1911 | (B,168,61) | CKSRYB104K25 |
| C 1605 | (A,87,79) | CKSRYB103K50 | C 1912 | (B,169,44) | CKSRYB103K50 |
| C 1606 | (A,94,120) | CKSRYB222K50 | C 1913 | (B,170,56) | CKSRYB103K50 |
| C 1607 | (A,87,81) | CKSRYB103K50 | C 1914 | (B,169,39) | CKSRYB103K50 |
| C 1610 | (A,73,93) | CKSRYB102K50 | C 1915 | (A,166,53) | CEVW101M16 |
| C 1611 | (A,95,95) | CKSRYB102K50 | C 1916 | (A,166,38) | CEVW101M16 |
| C 1612 | (A,72,106) | CKSRYB102K50 | C 1917 | (A,155,46) | CEVW101M16 |
| C 1613 | (A,82,113) | CKSRYB102K50 | C 1918 | (A,155,41) | CKSRYB103K50 |
| C 1614 | (B,84,111) | CKSRYB105K10 | C 1919 | (A,165,74) | CEVW101M16 |
| C 1615 | (A,90,115) | CKSRYB103K50 | C 1920 | (B,169,73) | CKSRYB103K50 |
| C 1616 | (A,70,93) | CKSRYB104K16 | C 1921 | (B,169,69) | CKSRYB103K50 |
| C 1619 | (A,102,90) | CKSRYB104K16 | C 1922 | (A,173,84) | CKSRYB104K16 |
| C 1620 | (A,96,86) | CKSRYB104K16 | C 1923 | (A,166,65) | CEVW470M16 |
| C 1621 | (A,94,117) | CKSRYB104K16 | C 1924 | (A,173,86) | CKSRYB103K50 |
| C 1622 | (B,112,98) | CKSRYB103K50 | C 1925 | (A,172,91) | CEVW220M16 |
| C 1623 | (B,111,105) | CKSRYB103K50 | C 1950 | (A,122,94) | CEVW101M16 |
| C 1801 | (B,149,69) | CKSRYB222K50 | C 1951 | (B,108,85) | CKSRYB103K50 |
| C 1802 | (B,139,67) | CKSRYB103K50 | C 1952 | (B,115,86) | CKSRYB103K50 |
| C 1803 | (B,146,68) | CCSRCH220J50 | C 1953 | (A,127,87) | CEVW101M16 |
| C 1805 | (A,123,76) | CEVW100M16 | C 1954 | (A,113,39) | CEVW101M16 |
| C 1806 | (B,120,76) | CKSRYB473K50 | C 1955 | (B,112,44) | CKSRYB103K50 |
| C 1807 | (A,129,78) | CEVW220M16 | C 1956 | (B,104,44) | CKSRYB103K50 |
| C 1808 | (B,126,73) | CKSRYB103K50 | C 1957 | (A,111,47) | CEVW101M16 |
| C 1809 | (B,132,72) | CKSRYB103K50 | C 2813 | (B,23,31) | CKSRYF104Z25 |
| C 1810 | (B,136,80) | CKSRYB473K50 | C 2814 | (B,18,32) | CKSRYF104Z25 |
| C 1811 | (B,114,73) | CKSRYB103K50 | C 2831 | (A,38,20) | CEVW100M16 |
| C 1812 | (B,124,68) | CKSRYB224K16 | C 2832 | (A,39,13) | CEVW100M16 |
| C 1821 | (A,11,118) | CKSRYB823K16 | C 2833 | (B,42,15) | CKSRYB222K50 |
| C 1822 | (B,17,124) | CKSRYB104K25 | C 2834 | (B,44,6) | CKSRYB222K50 |
| C 1823 | (B,17,122) | CKSRYB103K50 | C 2837 | (A,44,7) | CEVW100M16 |
| C 1824 | (A,14,117) | CKSRYB104K16 | C 2838 | (A,29,20) | CEVW100M16 |
| C 1825 | (B,23,122) | CKSRYB102K50 | C 2839 | (B,35,5) | CKSRYB222K50 |
| C 1826 | (A,21,119) | CKSRYF104Z25 | C 2840 | (B,33,15) | CKSRYB222K50 |
| C 1862 | (B,161,122) | CKSRYB103K50 | C 2843 | (A,29,13) | CEVW100M16 |
| C 1863 | (B,163,111) | CKSYB106K6R3 | C 2844 | (A,34,7) | CEVW100M16 |
| C 1864 | (B,168,98) | CKSRYB104K25 | C 2845 | (B,28,15) | CKSRYB222K50 |
| C 1865 | (A,166,94) | CCSRCH102J50 | C 2846 | (B,28,5) | CKSRYB222K50 |

Circuit Symbol and No.**Part No.**

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|--------|-----------|--------------|
| C 2849 | (A,92,24) | CKSSYB102K50 |
| C 2851 | (B,23,33) | CKSRYF103Z50 |
| C 2879 | (A,96,21) | CEVW470M16 |
| C 2880 | (A,73,40) | CKSRYF104Z25 |
| C 2886 | (B,89,25) | CKSRYF104Z25 |
| C 2887 | (B,20,32) | CKSRYF104Z25 |

Monitor Unit**Consists of****Monitor PCB****Upper PCB****Inverter PCB****GHI****Unit Number:CWM9950(AVIC-N2/XU/UC)****Unit Number:CWM9949(AVIC-X1R/XU/EW)****Unit Name:Monitor Unit****MISCELLANEOUS**

| | | |
|---------|---------------|-----------------|
| IC 4001 | (A,28,50) IC | TC90A64AF-P |
| IC 4061 | (A,55,79) IC | TC7SH08FUS1 |
| IC 4141 | (A,62,38) IC | TC7SH08FUS1 |
| IC 4142 | (A,67,43) IC | TK15404AMI |
| IC 4151 | (A,53,34) IC | NJM2138V |
| IC 4181 | (A,45,18) IC | NJM082BV |
| IC 4212 | (A,102,28) IC | TC7SH08FUS1 |
| IC 4311 | (A,11,33) IC | NJM062V |
| IC 4311 | (A,11,33) IC | NJM062V |
| IC 4601 | (A,77,31) IC | PE5413B |
| IC 4602 | (A,67,10) IC | S-80835CNNB-B8U |

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|---------|---------------|------------------|
| IC 4651 | (A,64,25) IC | S-93C46BR0I-J8T1 |
| IC 4701 | (A,106,68) IC | PD6340A |
| IC 4702 | (A,137,76) IC | TC7SH08FUS1 |
| IC 4841 | (A,125,45) IC | R1130H251B |
| IC 4851 | (A,134,21) IC | R1224N102H |

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|---------|---------------|--------------|
| IC 4861 | (A,143,47) IC | MAX1748EUES1 |
| IC 4901 | (A,93,19) IC | NJM2903V |
| IC 5002 | (B,5,14) IC | TC7SET08FUS1 |
| IC 5003 | (B,10,46) IC | OZ9611SN |
| IC 5004 | (A,9,59) FET | SI6544DQ |

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|---------|----------------------|----------|
| IC 5005 | (A,13,56) FET | SI6544DQ |
| Q 4002 | (A,44,62) Transistor | 2SC4617 |
| Q 4101 | (A,54,66) Transistor | 2SC4617 |
| Q 4102 | (A,48,63) Transistor | 2SA1774 |
| Q 4103 | (A,49,65) Transistor | 2SC4617 |

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|--------|----------------------|---------|
| Q 4111 | (A,56,60) Transistor | 2SC4617 |
| Q 4112 | (A,48,57) Transistor | 2SA1774 |
| Q 4113 | (A,51,60) Transistor | 2SC4617 |
| Q 4121 | (A,56,54) Transistor | 2SC4617 |
| Q 4122 | (A,48,51) Transistor | 2SA1774 |

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|--------|----------------------|---------|
| Q 4123 | (A,51,54) Transistor | 2SC4617 |
| Q 4131 | (A,56,49) Transistor | 2SC4617 |
| Q 4132 | (A,48,46) Transistor | 2SA1774 |
| Q 4133 | (A,51,49) Transistor | 2SC4617 |
| Q 4151 | (A,46,38) Transistor | UMZ1N |

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|--------|----------------------|-------|
| Q 4152 | (A,39,35) Transistor | UMZ1N |
| Q 4153 | (A,39,32) Transistor | UMZ1N |
| Q 4154 | (A,54,26) Transistor | UMZ1N |
| Q 4155 | (A,47,26) Transistor | UMZ1N |

Circuit Symbol and No.**Part No.**

| | | |
|--------|----------------------|---------|
| Q 4156 | (A,39,26) Transistor | UMZ1N |
| Q 4182 | (A,39,21) Transistor | UMX2N |
| Q 4183 | (A,39,16) Transistor | UMT2N |
| Q 4603 | (A,98,26) Transistor | 2SC4617 |
| Q 4681 | (A,11,7) Transistor | IMD3A |
| Q 4682 | (A,11,11) Transistor | IMD3A |

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|--------|-----------------------|----------|
| Q 4683 | (A,11,15) Transistor | FMG12 |
| Q 4741 | (A,119,60) Transistor | DTA123JK |
| Q 4742 | (A,119,56) Transistor | DTC124EK |
| Q 4831 | (A,148,28) Transistor | 2SB1260 |
| Q 4832 | (A,141,22) Transistor | DTC114EK |

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|--------|-----------------------|---------|
| Q 4833 | (A,140,18) Transistor | 2SC4617 |
| Q 4835 | (A,100,45) Transistor | 2SD1664 |
| Q 4851 | (A,131,26) FET | CPH6316 |
| Q 5001 | (B,12,33) Transistor | 2SC4617 |
| Q 5002 | (B,13,36) Transistor | 2SC4617 |

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|--------|----------------------|----------|
| Q 5003 | (B,8,36) Transistor | DTA144EE |
| Q 5004 | (B,6,35) Transistor | 2SC4617 |
| Q 5011 | (B,10,10) Transistor | 2SC4097 |
| Q 5020 | (B,9,64) Transistor | 2SC4617 |
| Q 5101 | (B,12,69) Transistor | 2SC4617 |

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|--------|----------------------|----------|
| Q 5102 | (B,11,67) Transistor | 2SC4617 |
| Q 5103 | (B,10,62) Transistor | 2SA1774 |
| Q 5105 | (B,7,67) Transistor | UMX2N |
| D 4301 | (A,5,132) Diode | DAN202U |
| D 4311 | (A,11,37) Diode | AM-30-21 |

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|--------|----------------|---------------|
| D 4321 | (A,9,119) LED | CL-490S-WF-SD |
| D 4322 | (A,9,50) LED | CL-490S-WF-SD |
| D 4355 | (A,10,160) LED | CL-190UB2-X |
| D 4356 | (A,10,148) LED | CL-190UB2-X |
| D 4357 | (A,10,21) LED | CL-190UB2-X |

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|--------|-----------------|-------------|
| D 4358 | (A,10,9) LED | CL-190UB2-X |
| D 4601 | (A,99,32) Diode | RB500V-40 |
| D 4681 | (A,14,13) Diode | MA111 |
| D 4682 | (A,13,18) Diode | MA111 |
| D 4683 | (A,10,20) Diode | UDZS5R6(B) |

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|--------|------------------|------------|
| D 4684 | (A,10,25) Diode | UDZS5R6(B) |
| D 4701 | (A,114,77) Diode | UDZS5R6(B) |
| D 4702 | (A,113,77) Diode | UDZS5R6(B) |
| D 4703 | (A,121,73) Diode | UDZS5R6(B) |
| D 4704 | (A,119,73) Diode | UDZS5R6(B) |

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|--------|------------------|------------|
| D 4705 | (A,102,79) Diode | UDZS5R6(B) |
| D 4706 | (A,100,79) Diode | UDZS5R6(B) |
| D 4831 | (A,142,19) Diode | UDZS22(B) |
| D 4835 | (A,104,41) Diode | UDZS5R6(B) |
| D 4852 | (A,131,31) Diode | U2FWJ44N |

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|--------|------------------|-----------|
| D 4861 | (A,135,50) Diode | RB160M-30 |
| D 4862 | (A,137,57) Diode | RB500V-40 |
| D 4863 | (A,139,57) Diode | RB500V-40 |
| D 4864 | (A,141,57) Diode | RB500V-40 |
| D 4865 | (A,143,57) Diode | RB500V-40 |

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|--------|------------------|------------|
| D 4866 | (A,145,57) Diode | RB500V-40 |
| D 4867 | (A,146,56) Diode | RB500V-40 |
| D 4868 | (A,148,56) Diode | RB500V-40 |
| D 4869 | (A,150,56) Diode | RB500V-40 |
| D 5001 | (B,11,31) Diode | UDZS6R8(B) |

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|--------|--------------------|-------------|
| D 5003 | (A,13,45) LED | CL-195PG-CD |
| D 5004 | (A,13,42) LED (EW) | CL-195SR-CD |
| D 5005 | (A,13,31) LED | CL-195PG-CD |
| D 5006 | (A,13,28) LED (EW) | CL-195SR-CD |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|--------------------------------------|-----------------|
| D 5007 | (A,13,16) LED | CL-190UB2-X |
| D 5008 | (A,13,10) LED | CL-190UB2-X |
| D 5009 | (A,11,42) Diode | RB751V40 |
| D 5010 | (A,17,53) Diode | UDZS6R2(B) |
| D 5011 | (A,7,56) Diode | UDZS6R2(B) |
| D 5012 | (B,6,71) Diode | UDZS6R2(B) |
| D 5013 | (B,18,69) Diode | MA147 |
| D 5014 | (B,6,74) Diode | MA147 |
| D 5016 | (B,16,10) Diode | UDZS5R6(B) |
| D 5030 | (A,16,19) Diode (EW) | DAN202U |
| D 5101 | (B,15,67) Diode | UDZS8R2(B) |
| L 4001 | (A,17,38) Inductor | CTF1306 |
| L 4002 | (A,21,36) Inductor | CTF1306 |
| L 4003 | (A,26,36) Inductor | CTF1306 |
| L 4004 | (A,27,36) Inductor | CTF1306 |
| L 4005 | (A,28,65) Inductor-Array | CTF1421 |
| L 4006 | (A,23,65) Inductor-Array | CTF1421 |
| L 4008 | (A,26,65) Inductor | CTF1306 |
| L 4009 | (A,23,37) Inductor | CTF1306 |
| L 4011 | (A,19,36) Inductor | CTF1306 |
| L 4012 | (A,24,36) Ferrite Bead | CTF1528 |
| L 4013 | (A,30,63) Ferrite Bead | CTF1528 |
| L 4014 | (A,24,63) Ferrite Bead | CTF1528 |
| L 4015 | (A,20,64) Inductor | CTF1306 |
| L 4016 | (A,16,47) Ferrite Bead | CTF1528 |
| L 4017 | (A,28,37) Inductor | CTF1306 |
| L 4071 | (A,50,69) Inductor | LCYA100J2520 |
| L 4074 | (A,45,41) Inductor | LCYA100J2520 |
| L 4075 | (A,53,70) Inductor | LCYA100J2520 |
| L 4078 | (A,43,68) Inductor | LCYA100J2520 |
| L 4079 | (A,41,68) Inductor | CTF1306 |
| L 4081 | (A,51,75) Inductor | LCYC2R2K2125 |
| L 4101 | (A,121,37) Inductor | LCYA100J2520 |
| L 4141 | (A,71,63) Inductor | LCYA100J2520 |
| L 4151 | (A,62,31) Inductor | LCYA100J2520 |
| L 4152 | (A,61,18) Inductor | LCYA100J2520 |
| L 4181 | (A,57,19) Coil | LCYA101J2520 |
| L 4182 | (A,57,16) Coil | LCYA101J2520 |
| L 4311 | (A,6,38) Inductor | LCYA100J2520 |
| L 4311 | (A,6,38) Inductor | LCYA100J2520 |
| L 4601 | (A,83,14) Inductor | LCYA100J2520 |
| L 4701 | (A,119,63) Inductor | LCYA100J2520 |
| L 4801 | (A,20,31) Inductor | LCYA100J2520 |
| L 4802 | (A,23,30) Inductor | LCYA100J2520 |
| L 4803 | (A,27,30) Inductor | LCYA100J2520 |
| L 4804 | (A,30,30) Inductor | LCYA100J2520 |
| L 4841 | (A,126,37) Choke Coil 10μH | CTH1249 |
| L 4851 | (A,142,28) Choke Coil 10μH | CTH1259 |
| L 4852 | (A,126,26) Choke Coil 18μH | CTH1250 |
| L 4861 | (A,137,37) Choke Coil 10μH | CTH1249 |
| L 4862 | (A,136,46) Choke Coil 6.8μH | CTH1248 |
| L 4863 | (A,137,62) Inductor | LCTC100K1608 |
| L 4864 | (A,130,55) Inductor | LCYA100J2520 |
| L 4865 | (A,149,65) Inductor | LCYA100J2520 |
| L 4901 | (A,92,27) Inductor | LCYA2R2J2520 |
| T 5001 | (A,9,80) Transformer | CTT1103 |
| TH4601 | (A,145,82) Thermistor | CCX1051 |
| X 4001 | (A,35,68) Crystal Resonator 42MHz | CSS1604 |
| X 4601 | (A,76,18) Radiator 12.58MHz | CSS1601 |
| X 4701 | (A,107,78) Ceramic Resonator 4.97MHz | CSS1573 |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|-----------------------------|-----------------|
| S 4351 | (A,12,160) Push Switch | CSG1111 |
| S 4352 | (A,12,148) Push Switch | CSG1111 |
| S 4353 | (A,12,21) Push Switch | CSG1111 |
| S 4354 | (A,12,9) Push Switch | CSG1111 |
| S 5001 | (A,18,43) Push Switch | CSG1111 |
| S 5002 | (A,18,29) Push Switch | CSG1111 |
| S 5003 | (A,18,13) Push Switch | CSG1111 |
| VR5001 | (A,8,43) Semi-fixed 15kΩ(B) | CCP1490 |
| △FU4831 | (A,117,10) Fuse 630mA | CEK1252 |
| △FU5001 | (B,7,24) Fuse 1.25A | CEK1255 |

RESISTORS

| | | |
|--------|------------|--------------|
| R 4001 | (A,26,33) | RS1/16S101J |
| R 4002 | (A,20,34) | RS1/16S470J |
| R 4003 | (A,28,34) | RS1/16S101J |
| R 4004 | (A,33,34) | RS1/16S101J |
| R 4005 | (A,43,43) | RS1/16S473J |
| R 4006 | (A,45,45) | RS1/16S392J |
| R 4009 | (A,44,60) | RS1/16S152J |
| R 4010 | (A,42,65) | RS1/16S331J |
| R 4012 | (A,33,63) | RS1/16SS105J |
| R 4013 | (A,34,64) | RS1/16S391J |
| R 4014 | (A,28,69) | RAB4C101J |
| R 4015 | (A,25,69) | RS1/16S473J |
| R 4018 | (A,22,69) | RS1/16S101J |
| R 4022 | (A,20,66) | RS1/16S101J |
| R 4023 | (A,18,72) | RS1/16S0R0J |
| R 4024 | (A,17,62) | RS1/16S333J |
| R 4025 | (A,15,39) | RS1/16S101J |
| R 4026 | (A,30,35) | RS1/16S101J |
| R 4027 | (A,16,37) | RS1/16S101J |
| R 4030 | (A,18,33) | RS1/16S101J |
| R 4031 | (A,29,34) | RS1/16S101J |
| R 4061 | (A,64,81) | RS1/16S473J |
| R 4062 | (A,63,78) | RS1/16S152J |
| R 4063 | (A,58,80) | RS1/16S0R0J |
| R 4064 | (A,57,82) | RS1/16S0R0J |
| R 4084 | (A,20,74) | RS1/16S473J |
| R 4085 | (A,22,74) | RS1/16S473J |
| R 4086 | (A,22,70) | RS1/16S473J |
| R 4087 | (A,40,75) | RS1/16S104J |
| R 4088 | (A,43,81) | RS1/16S104J |
| R 4089 | (A,45,82) | RS1/16S104J |
| R 4101 | (A,57,66) | RS1/16S8201F |
| R 4102 | (A,57,63) | RS1/16S5602F |
| R 4103 | (A,55,63) | RS1/16S681J |
| R 4104 | (A,53,64) | RS1/16S331J |
| R 4105 | (A,105,11) | RS1/16S104J |
| R 4107 | (A,61,65) | RS1/16S6801D |
| R 4108 | (A,51,66) | RS1/16S331J |
| R 4109 | (A,49,63) | RS1/16S391J |
| R 4110 | (A,47,66) | RS1/16S391J |
| R 4111 | (A,58,60) | RS1/16S153J |
| R 4112 | (A,58,57) | RS1/16S104J |
| R 4113 | (A,57,57) | RS1/16S681J |
| R 4114 | (A,54,59) | RS1/16S331J |
| R 4115 | (A,102,13) | RS1/16S75R0D |
| R 4118 | (A,54,60) | RS1/16S331J |
| R 4119 | (A,50,57) | RS1/16S391J |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 4120 (A,49,60)
R 4121 (A,58,54)
R 4122 (A,58,51)

RS1/16S391J
RS1/16S153J
RS1/16S104J

R 4193 (A,37,14)
R 4194 (A,39,18)
R 4208 (A,124,72)

RS1/16S0R0J
RS1/16S0R0J
RS1/16S101J

R 4123 (A,57,51)
R 4124 (A,54,53)
R 4125 (A,103,14)
R 4128 (A,54,54)
R 4129 (A,50,51)

RS1/16S681J
RS1/16S331J
RS1/16S75R0D
RS1/16S331J
RS1/16S391J

R 4209 (A,123,69)
R 4211 (A,103,22)
R 4311 (A,13,30)
R 4312 (A,15,30)
R 4313 (A,7,33)

RS1/16S101J
RS1/16S681J
RS1/16S275J
RS1/16S105J
RS1/16SS393J

R 4130 (A,49,54)
R 4131 (A,58,49)
R 4132 (A,58,46)
R 4133 (A,57,46)
R 4134 (A,54,47)

RS1/16S391J
RS1/16S153J
RS1/16S104J
RS1/16S681J
RS1/16S331J

R 4314 (A,8,31)
R 4315 (A,15,45)
R 4321 (A,14,124)
R 4322 (A,9,124)
R 4323 (A,8,44)

RS1/16S103J
RS1/16SS121J
RS1/16SS121J
RS1/16SS121J
RS1/16SS121J

R 4135 (A,105,15)
R 4138 (A,54,49)
R 4139 (A,50,46)
R 4140 (A,49,49)
R 4141 (A,64,42)

RS1/16S75R0D
RS1/16S331J
RS1/16S391J
RS1/16S391J
RS1/16S105J

R 4324 (A,10,44)
R 4359 (A,8,139)
R 4360 (A,8,140)
R 4361 (A,8,141)
R 4362 (A,8,142)

RS1/16SS121J
RS1/16SS181J
RS1/16SS121J
RS1/16SS121J
RS1/16SS121J

R 4142 (A,62,43)
R 4145 (A,64,46)
R 4146 (A,66,45)
R 4147 (A,65,38)
R 4148 (A,65,37)

RS1/16S224J
RS1/16S1501D
RS1/16S5602F
RS1/16S3302F
RS1/16S1002F

R 4363 (A,4,129)
R 4364 (A,6,129)
R 4365 (A,11,26)
R 4366 (A,10,27)
R 4453 (A,138,72)

RS1/16SS181J
RS1/16SS121J
RS1/16SS121J
RS1/16SS121J
RS1/16S101J

R 4150 (A,39,30)
R 4152 (A,48,35)
R 4153 (A,45,35)
R 4154 (A,54,30)
R 4155 (A,51,30)

RS1/16S183J
RS1/16S3901F
RS1/16S1501F
RS1/16S102J
RS1/16S102J

R 4454 (A,138,71)
R 4601 (A,104,23)
R 4602 (A,106,28)
R 4603 (A,79,17)
R 4604 (A,89,27)

RS1/16S101J
RS1/16S473J
RS1/16S473J
RS1/16S473J
RS1/16SS471J

R 4156 (A,45,32)
R 4157 (A,48,31)
R 4160 (A,60,37)
R 4161 (A,60,35)
R 4162 (A,57,30)

RS1/16S1501F
RS1/16S3901F
RS1/16S1002F
RS1/16S1802F
RS1/16S102J

R 4605 (A,71,19)
R 4606 (A,89,30)
R 4607 (A,89,33)
R 4608 (A,88,35)
R 4610 (A,77,42)

RS1/16SS471J
RAB4CQ471J
RAB4CQ471J
RS1/16SS471J
RS1/16SS471J

R 4163 (A,55,38)
R 4164 (A,52,38)
R 4165 (A,49,38)
R 4166 (A,44,38)
R 4167 (A,42,35)

RS1/16S3901F
RS1/16S1501F
RS1/16S102J
RS1/16S272J
RS1/16S102J

R 4611 (A,83,42)
R 4612 (A,78,42)
R 4613 (A,81,42)
R 4614 (A,80,42)
R 4615 (A,71,15)

RS1/16S470J
RS1/16S470J
RS1/16S272J
RS1/16S272J
RS1/16SS471J

R 4168 (A,37,35)
R 4169 (A,42,32)
R 4170 (A,37,32)
R 4171 (A,52,26)
R 4172 (A,59,26)

RS1/16S272J
RS1/16S102J
RS1/16S272J
RS1/16S331J
RS1/16S103J

R 4616 (A,73,15)
R 4617 (A,73,13)
R 4618 (A,88,28)
R 4619 (A,97,29)
R 4621 (A,98,29)

RS1/16S104J
RS1/16S473J
RS1/16SS471J
RS1/16S473J
RS1/16S223J

R 4174 (A,44,27)
R 4175 (A,48,24)
R 4177 (A,36,27)
R 4178 (A,42,24)
R 4180 (A,35,29)

RS1/16S331J
RS1/16S103J
RS1/16S331J
RS1/16S103J
RS1/16S243J

R 4622 (A,95,33)
R 4623 (A,99,29)
R 4624 (A,87,42)
R 4625 (A,65,12)
R 4626 (A,67,29)

RS1/16S473J
RS1/16S0R0J
RAB4CQ473J
RS1/16S103J
RS1/16S473J

R 4181 (A,42,23)
R 4182 (A,47,22)
R 4183 (A,45,22)
R 4184 (A,47,19)
R 4185 (A,48,15)

RS1/16S3002F
RS1/16S223J
RS1/16S1203F
RS1/16S1602F
RS1/16S1502F

R 4627 (A,83,17)
R 4628 (A,65,14)
R 4629 (A,84,42)
R 4630 (A,64,16)
R 4631 (A,82,21)

RAB4CQ472J
RS1/16S0R0J
RS1/16S473J
RS1/16S0R0J
RAB4CQ471J

R 4186 (A,42,21)
R 4187 (A,42,18)
R 4188 (A,42,16)
R 4189 (A,37,19)
R 4190 (A,41,21)

RS1/16S1002F
RS1/16S1002F
RS1/16S101J
RS1/16S153J
RS1/16S100J

R 4642 (A,68,14)
R 4646 (A,69,18)
R 4650 (A,66,29)
R 4651 (A,67,33)
R 4652 (A,67,35)

RS1/16S473J
RS1/16S473J
RS1/16SS471J
RAB4CQ471J
RS1/16SS471J

R 4191 (A,35,14)
R 4192 (A,42,14)

RS1/16S153J
RS1/16S100J

R 4655 (A,77,46)
R 4657 (A,66,28)

RS1/16S102J
RS1/16SS0R0J

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|----------------|-----------------|-------------------------------|----------------|-----------------|
| R 4670 | (A,85,19) | RS1/16S1502D | R 5014 | (A,8,14) | RS1/16S102J |
| R 4681 | (A,10,23) | RS1/16S104J | R 5015 | (B,18,67) | RS1/16S105J |
| R 4682 | (A,10,19) | RS1/16S104J | R 5016 | (A,12,48) | RS1/16S563J |
| R 4683 | (A,13,22) | RS1/16S102J | R 5017 | (A,17,51) | RS1/16S103J |
| R 4684 | (A,13,20) | RS1/16S102J | R 5018 | (A,8,55) | RS1/16S103J |
| R 4701 | (A,116,74) | RS1/16S101J | R 5019 | (B,6,70) | RS1/16S511J |
| R 4702 | (A,116,73) | RS1/16S101J | R 5020 | (B,6,68) | RS1/16S821J |
| R 4703 | (A,98,79) | RS1/16S101J | R 5022 | (A,16,24) | RS1/16S181J |
| R 4704 | (A,98,78) | RS1/16S101J | R 5023 | (A,14,8) | RS1/16SS0R0J |
| R 4705 | (A,111,77) | RS1/16S471J | R 5024 | (A,15,24) (EW) | RS1/16SS151J |
| R 4707 | (A,116,69) | RS1/16S0R0J | R 5030 | (A,19,18) (UC) | RS1/16S470J |
| R 4709 | (A,106,58) | RS1/16SS472J | R 5031 | (B,13,9) | RS1/16S332J |
| R 4711 | (A,134,74) | RS1/16S471J | R 5101 | (B,6,63) | RS1/16S101J |
| R 4741 | (A,106,83) | RS1/16S0R0J | R 5102 | (B,11,64) | RS1/16S103J |
| R 4742 | (A,115,80) | RS1/16S0R0J | R 5103 | (B,6,64) | RS1/16S471J |
| R 4743 | (A,101,83) | RS1/16S473J | R 5104 | (B,9,69) | RS1/16S101J |
| R 4802 | (A,17,21) | RS1/16S0R0J | R 5105 | (B,14,67) | RS1/16S104J |
| R 4803 | (A,35,20) | RS1/16S333J | R 5106 | (B,14,65) | RS1/16S103J |
| R 4804 | (A,52,29) | RS1/16S0R0J | R 5107 | (B,12,63) | RS1/16S473J |
| R 4805 | (A,45,24) | RS1/16S0R0J | R 5108 | (B,10,69) | RS1/16S101J |
| R 4806 | (A,37,24) | RS1/16S0R0J | R 5109 | (A,7,15) | RS1/16S824J |
| R 4831 | (A,147,24) | RS1/16S153J | CAPACITORS | | |
| R 4832 | (A,143,23) | RS1/16S472J | | | |
| R 4833 | (A,145,23) | RS1/16S472J | | | |
| R 4834 | (A,144,19) | RS1/16S103J | | | |
| R 4835 | (A,104,45) | RS1/16S121J | | | |
| R 4851 | (A,135,23) | RS1/16S5102D | C 4001 | (A,19,37) | CKSRYB105K6R3 |
| R 4852 | (A,137,22) | RS1/16S2202D | C 4002 | (A,24,37) | CKSSYF104Z16 |
| R 4853 | (A,137,25) | RS1/16S272J | C 4003 | (A,31,37) | CKSSYF104Z16 |
| R 4854 | (A,131,19) | RS1/16S100J | C 4004 | (A,33,37) | CKSSYF104Z16 |
| R 4855 | (A,135,17) | RS1/16S102J | C 4005 | (A,32,36) | CKSSYF104Z16 |
| R 4858 | (A,132,23) | RS1/16S560J | C 4006 | (A,34,37) | CKSSYF104Z16 |
| R 4859 | (A,128,30) | RS1/16S100J | C 4007 | (A,36,37) | CKSSYF104Z16 |
| R 4861 | (A,140,44) | RS1/16S104J | C 4008 | (A,38,38) | CKSSYF104Z16 |
| R 4862 | (A,136,42) | RS1/16S102J | C 4009 | (A,40,37) | CKSSYF104Z16 |
| R 4863 | (A,140,47) | RS1/16S1102F | C 4010 | (A,39,38) | CKSSYF104Z16 |
| R 4864 | (A,138,41) | RS1/16S2001F | C 4011 | (A,41,41) | CKSSYF104Z16 |
| R 4865 | (A,148,40) | RS1/16S3302F | C 4012 | (A,40,43) | CKSSYF104Z16 |
| R 4866 | (A,146,41) | RS1/16S2401F | C 4013 | (A,42,45) | CKSRYB392K50 |
| R 4867 | (A,147,44) | RS1/16S5602F | C 4015 | (A,47,44) | CKSRYB105K6R3 |
| R 4868 | (A,149,42) | RS1/16S2703F | C 4016 | (A,40,47) | CKSSYF104Z16 |
| R 4869 | (A,148,44) | RS1/16S5602F | C 4017 | (A,41,48) | CKSSYF104Z16 |
| R 4901 | (A,95,25) | RS1/16S103J | C 4018 | (A,44,47) | CKSRYB104K16 |
| R 4902 | (A,91,14) | RS1/16S103J | C 4019 | (A,44,49) | CKSRYB104K16 |
| R 4903 | (A,87,20) | RS1/16S392J | C 4020 | (A,44,52) | CKSRYB104K16 |
| R 4904 | (A,89,20) | RS1/16S912J | C 4021 | (A,40,51) | CKSSYF104Z16 |
| R 4905 | (A,87,17) | RS1/16S2003F | C 4022 | (A,46,55) | CKSSYF104Z16 |
| R 4906 | (A,93,17) | RS1/16S153J | C 4023 | (A,45,55) | CKSSYF104Z16 |
| R 4907 | (A,89,17) | RS1/16S153J | C 4024 | (A,44,55) | CKSSYF104Z16 |
| R 5001 | (A,14,25) (EW) | RAB4CQ181J | C 4025 | (A,41,52) | CKSSYF104Z16 |
| R 5002 | (A,17,35) | RAB4CQ151J | C 4026 | (A,41,53) | CKSSYF104Z16 |
| R 5003 | (B,15,33) | RS1/16S103J | C 4027 | (A,41,54) | CKSSYF104Z16 |
| R 5004 | (A,17,9) | RAB4CQ151J | C 4028 | (A,41,55) | CKSSYF104Z16 |
| R 5005 | (B,14,32) | RS1/16S104J | C 4029 | (A,41,56) | CKSSYF104Z16 |
| R 5006 | (B,5,33) | RS1/16S102J | C 4030 | (A,44,57) | CKSRYB104K16 |
| R 5007 | (B,11,37) | RS1/16S473J | C 4031 | (A,43,55) | CKSSYF104Z16 |
| R 5008 | (B,7,32) | RS1/16S473J | C 4032 | (A,41,57) | CKSSYF104Z16 |
| R 5009 | (B,12,40) | RS1/16S105J | C 4033 | (A,41,58) | CKSSYF104Z16 |
| R 5010 | (B,8,38) | RS1/16S333J | C 4034 | (A,41,59) | CKSSYF104Z16 |
| R 5011 | (B,4,44) | RS1/16S513J | C 4035 | (A,43,63) | CKSRYB103K50 |
| | | | C 4036 | (A,44,58) | CCSRCH4R0C50 |
| | | | C 4037 | (A,39,61) | CKSSYF104Z16 |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 4040 (A,39,62)
C 4042 (A,37,63)
C 4045 (A,36,65)
C 4046 (A,34,65)

CKSSYF104Z16
CCSRCH181J50
CCSRCH9R0D50
CCSRCH9R0D50

C 4182 (A,49,19)
C 4183 (A,52,17)
C 4184 (A,49,17)
C 4186 (A,49,22)

CKSRYF104Z25
CSZSR4R7M25
CKSRYF104Z25
CKSRYF104Z25

C 4047 (A,31,63)
C 4048 (A,30,62)
C 4049 (A,25,62)
C 4050 (A,20,63)
C 4051 (A,16,54)

CKSSYF104Z16
CKSSYF104Z16
CKSSYF104Z16
CKSRYB105K6R3
CKSSYF104Z16

C 4188 (A,47,17)
C 4225 (A,103,25)
C 4311 (A,11,30)
C 4312 (A,9,28)
C 4313 (A,7,28)

CKSRYF104Z25
CKSRYF104Z25
CKSRYB224K16
CKSRYB104K16
CKSRYB104K16

C 4052 (A,16,46)
C 4054 (A,23,34)
C 4055 (A,16,65)
C 4061 (A,53,80)
C 4062 (A,63,81)

CKSSYF104Z16
CCSRCH101J50
CKSRYF104Z25
CKSRYF104Z25
CCSRCH390J50

C 4314 (A,6,35)
C 4315 (A,6,31)
C 4321 (A,11,123)
C 4322 (A,10,45)
C 4375 (A,11,156)

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C 4071 (A,47,70)
C 4074 (A,43,41)
C 4075 (A,49,72)
C 4101 (A,63,64)
C 4102 (A,53,63)

CSZS100M10
CKSRYB105K6R3
CKSRYB105K6R3
CKSYF106Z10
CCSRCH470J50

C 4376 (A,10,144)
C 4377 (A,9,25)
C 4378 (A,11,13)
C 4601 (A,77,14)
C 4602 (A,79,20)

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CSZSR330M10
CKSRYF104Z25

C 4103 (A,51,63)
C 4104 (A,56,66)
C 4105 (A,59,64)
C 4107 (A,65,64)
C 4111 (A,63,57)

CCSRCH470J50
CKSRYF104Z25
CSZS100M10
CKSYF106Z10
CKSYF106Z10

C 4603 (A,65,10)
C 4605 (A,74,20)
C 4621 (A,68,12)
C 4631 (A,74,6) 10μF
C 4632 (A,78,6) 10μF

CKSRYF104Z25
CKSRYF104Z25
CKSRYB103K50
CCG1138
CCG1138

C 4112 (A,54,57)
C 4113 (A,51,57)
C 4114 (A,60,59)
C 4121 (A,63,53)
C 4122 (A,54,51)

CCSRCH470J50
CCSRCH470J50
CKSRYF104Z25
CKSYF106Z10
CCSRCH470J50

C 4651 (A,61,21)
C 4670 (A,144,83)
C 4681 (A,13,25)
C 4682 (A,13,23)
C 4683 (A,10,17)

CKSRYF104Z25
CKSSYF104Z16
CKSRYB102K50
CKSRYB102K50
CKSRYB102K50

C 4123 (A,51,51)
C 4124 (A,60,54)
C 4131 (A,63,49)
C 4132 (A,54,46)
C 4133 (A,51,46)

CCSRCH470J50
CKSRYF104Z25
CKSYF106Z10
CCSRCH470J50
CCSRCH470J50

C 4684 (A,10,22)
C 4685 (A,88,25)
C 4686 (A,87,23)
C 4687 (A,15,7)
C 4701 (A,119,66)

CKSRYB102K50
CKSRYB102K50
CKSRYB102K50
CKSRYF104Z25
CSZSR330M10

C 4134 (A,60,49)
C 4140 (A,67,47)
C 4141 (A,64,43)
C 4142 (A,62,40)
C 4143 (A,63,59)

CKSRYF104Z25
CKSQYB225K10
CKSRYB105K6R3
CKSRYF104Z25
CSZS100M10

C 4702 (A,105,59)
C 4704 (A,135,78)
C 4801 (A,21,26)
C 4802 (A,20,22)
C 4803 (A,25,26)

CKSSYF104Z16
CKSRYF104Z25
CSZSR4R7M25
CKSRYF104Z25
CSZS100M10

C 4144 (A,65,40)
C 4145 (A,68,40)
C 4151 (A,59,32)
C 4152 (A,48,33)
C 4153 (A,47,35)

CKSRYF104Z25
CKSRYF104Z25
CSZSR220M16
CKSRYB103K50
CCSRCH4R0C50

C 4804 (A,23,22)
C 4805 (A,29,25)
C 4806 (A,26,22)
C 4807 (A,32,26)
C 4808 (A,32,23)

CKSRYF104Z25
CSZSR330M10
CKSRYF104Z25
CSZSR33M35
CKSRYF104Z25

C 4154 (A,47,31)
C 4155 (A,54,38)
C 4156 (A,58,37)
C 4160 (A,44,35)
C 4161 (A,44,32)

CCSRCH4R0C50
CCSRCH4R0C50
CKSRYF104Z25
CKSRYF104Z25
CKSRYF104Z25

C 4809 (A,21,31)
C 4810 (A,25,31)
C 4831 (A,28,31)
C 4832 (A,32,31)
C 4835 (A,102,41)

CKSSYF104Z16
CKSSYF104Z16
CKSSYF104Z16
CKSRYF104Z25
CKSRYF104Z25

C 4162 (A,51,38)
C 4163 (A,57,28)
C 4164 (A,50,28)
C 4165 (A,42,28)
C 4166 (A,39,28)

CKSRYF104Z25
CKSRYB105K6R3
CKSRYB105K6R3
CKSRYB105K6R3
CKSRYF104Z25

C 4836 (A,95,47)
C 4841 (A,126,41)
C 4843 (A,126,49) 68μF/6.3V
C 4844 (A,126,52)
C 4851 (A,146,31)

CKSRYF104Z25
CKSRYB105K6R3
CCH1440
CKSRYF104Z25
CKSRYB104K16

C 4167 (A,47,28)
C 4168 (A,55,29)
C 4169 (A,35,31)
C 4170 (A,58,23)
C 4171 (A,55,23)

CKSRYF104Z25
CKSRYF104Z25
CKSRYB103K50
CSZSR220M16
CSZSR220M16

C 4852 (A,124,32) 68μF/6.3V
C 4853 (A,122,31)
C 4855 (A,134,30) 10μF
C 4856 (A,127,32)
C 4857 (A,135,25)

CCH1440
CKSRYB104K16
CCG1138
CCSRCH102J50
CCSRCH681J50

C 4181 (A,51,21)

CSZSR220M16

C 4858 (A,138,30) 10μF

CCG1138

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|----------------------|-----------------|
| C 4859 | (A,134,19) | CKSRYB224K16 |
| C 4860 | (A,131,40) | CKSYF106Z10 |
| C 4861 | (A,131,42) | CKSYF106Z10 |
| C 4862 | (A,140,41) | CCSRCH100D50 |
| C 4863 | (A,136,41) | CKSRYB683K16 |
| C 4864 | (A,143,42) | CKSRYB104K16 |
| C 4865 | (A,141,41) | CKSRYB471K50 |
| C 4866 | (A,147,47) | CKSRYB224K16 |
| C 4867 | (A,144,53) | CKSRYB104K16 |
| C 4868 | (A,143,53) | CKSRYB104K16 |
| C 4869 | (A,139,54) | CKSRYB104K16 |
| C 4870 | (A,141,54) | CKSRYB224K16 |
| C 4871 | (A,147,53) | CKSRYB224K16 |
| C 4872 | (A,149,53) | CKSRYB104K16 |
| C 4873 | (A,141,65) | CKSQYB105K16 |
| C 4874 | (A,139,64) | CKSQYB474K25 |
| C 4875 | (A,143,61) | CKSRYB104K16 |
| C 4876 | (A,141,61) | CKSQYB474K25 |
| C 4877 | (A,138,60) | CKSQYB105K16 |
| C 4878 | (A,131,53) | CKSRYB104K16 |
| C 4879 | (A,134,54) 33μF/10V | CCH1586 |
| C 4881 | (A,136,65) | CKSRYF104Z25 |
| C 4882 | (A,128,53) | CKSRYF104Z25 |
| C 4883 | (A,146,67) | CKSRYF104Z25 |
| C 4884 | (A,137,53) | CKSRYB104K16 |
| C 4885 | (A,142,37) 68μF/6.3V | CCH1440 |
| C 4886 | (A,150,58) | CKSRYF104Z25 |
| C 4887 | (A,147,58) | CKSRYF104Z25 |
| C 4901 | (A,92,15) | CKSRYF104Z25 |
| C 4902 | (A,98,23) | CSZSR220M10 |
| C 4903 | (A,88,15) | CFHXSQ562J16 |
| C 4904 | (A,91,23) | CSZSR330M10 |
| C 4905 | (A,90,16) | CKSRYB102K50 |
| C 5001 | (B,15,8) | CKSRYB104K16 |
| C 5002 | (B,8,11) | CKSRYB105K6R3 |
| C 5003 | (A,10,37) | CSZSR330M10 |
| C 5004 | (A,15,10) | CKSRYB104K16 |
| C 5005 | (B,13,38) | CKSRYB104K16 |
| C 5006 | (B,8,39) | CKSRYB104K16 |
| C 5007 | (B,15,43) | CKSRYB105K6R3 |
| C 5008 | (B,16,45) | CKSQYB335K6R3 |
| C 5010 | (A,15,16) | CKSRYB104K16 |
| C 5011 | (B,5,41) | CKSRYB332K50 |
| C 5012 | (B,10,41) | CKSRYB105K6R3 |
| C 5013 | (B,5,39) | CKSRYB152K50 |
| C 5014 | (B,6,12) | CKSRYB104K16 |
| C 5015 | (A,9,52) | CKSRYB473K50 |
| C 5016 | (B,14,41) | CKSRYB103K50 |
| C 5017 | (A,15,48) | CFHXSQ221J50 |
| C 5018 | (A,14,51) | CKSRYB473K50 |
| C 5019 | (B,13,55) 10μF | CCG1138 |
| C 5020 | (B,9,57) 10μF | CCG1138 |
| C 5021 | (A,15,59) | CKSQYB105K16 |
| C 5022 | (A,13,59) | CKSQYB105K16 |
| C 5023 | (A,10,100) 22pF | CCG1214 |
| C 5024 | (B,18,72) | CKSRYB223K50 |
| C 5101 | (B,8,62) | CKSRYB104K16 |
| C 5102 | (B,6,61) | CKSRYB104K16 |

Keyboard Unit

Circuit Symbol and No. Part No.

Consists of
Keyboard PCB
Panel PCB



Unit Number:CWM9952(AVIC-N2/XU/UC)
Unit Number:CWM9951(AVIC-X1R/XU/EW)
Unit Name:Keyboard Unit

MISCELLANEOUS

| | | |
|---------|---------------------------|-------------|
| IC 5501 | (A,42,7) IC | SBX3050-01 |
| D 5501 | (B,64,11) LED (EW) | CL-195SR-CD |
| D 5504 | (A,6,4) LED | CL-190UB2-X |
| D 5505 | (A,6,18) LED | CL-190UB2-X |
| D 5509 | (A,138,8) LED | CL-190UB2-X |
| D 5510 | (A,29,8) LED | CL-190UB2-X |
| D 5512 | (A,78,5) LED (EW) | CL-195SR-CD |
| D 5513 | (A,77,5) LED | CL-195PG-CD |
| D 5514 | (A,90,5) LED (EW) | CL-195SR-CD |
| D 5515 | (A,53,5) LED | CL-195PG-CD |
| D 5516 | (A,100,5) LED | CL-195PG-CD |
| D 5517 | (A,102,5) LED (EW) | CL-195SR-CD |
| D 5518 | (A,89,5) LED | CL-195PG-CD |
| D 5519 | (A,114,5) LED (EW) | CL-195SR-CD |
| D 5520 | (A,127,7) LED (EW) | CL-195SR-CD |
| D 5521 | (A,113,5) LED | CL-195PG-CD |
| D 5522 | (A,125,7) LED | CL-195PG-CD |
| D 5524 | (A,21,12) LED | CL-190UB2-X |
| D 5526 | (A,150,17) LED | CL-190UB2-X |
| D 5527 | (B,39,6) Diode | UDZS6R8(B) |
| D 5529 | (A,150,5) LED | CL-190UB2-X |
| D 5530 | (A,164,11) LED | CL-190UB2-X |
| D 5531 | (A,67,5) LED | CL-195SR-CD |
| D 5534 | (A,65,5) LED | CL-195PG-CD |
| D 5536 | (B,145,11) Diode (EW) | DAN202U |
| D 5537 | (A,89,14) LED | CL-190UB2-X |
| D 5538 | (A,54,5) LED (EW) | CL-195SR-CD |
| D 5540 | (A,79,14) LED | CL-190UB2-X |
| D 5541 | (B,99,10) Diode | 1SS355 |
| D 5542 | (B,67,10) Diode | UDZS20(B) |
| D 5901 | (A,61,4) LED | SML-010VT |
| S 5501 | (A,118,4) Push Switch | CSG1111 |
| S 5502 | (A,94,4) Push Switch | CSG1111 |
| S 5503 | (A,105,4) Push Switch | CSG1111 |
| S 5504 | (A,29,4) Push Switch | CSG1111 |
| S 5505 | (A,58,4) Push Switch | CSG1111 |
| S 5506 | (A,138,4) Push Switch | CSG1111 |
| S 5507 | (A,126,4) Push Switch | CSG1111 |
| S 5508 | (A,70,4) Push Switch | CSG1111 |
| S 5509 | (A,82,4) Push Switch | CSG1111 |
| S 5510 | (A,11,11) Encoder(VOLUME) | CSD1106 |
| S 5511 | (A,156,11) Switch(SELECT) | CSX1075 |
| S 5901 | (A,104,21) Push Switch | CSG1111 |

RESISTORS

| | | |
|--------|------------|--------------|
| R 5501 | (B,97,6) | RS1/16SS121J |
| R 5502 | (A,147,11) | RS1/16S202J |
| R 5503 | (A,101,8) | RS1/16S392J |

Circuit Symbol and No.**Part No.**

| | | |
|--------|----------------|--------------|
| R 5504 | (A,96,6) | RS1/16S123J |
| R 5505 | (A,60,6) | RS1/16S122J |
| R 5506 | (A,25,4) | RS1/16S202J |
| R 5507 | (A,134,3) | RS1/16S122J |
| R 5508 | (B,22,14) | RS1/16S151J |
| R 5509 | (B,24,14) | RS1/16S151J |
| R 5510 | (B,93,11) (EW) | RS1/16SS181J |

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|--------|------------|--------------|
| R 5511 | (B,60,11) | RS1/16SS121J |
| R 5512 | (B,59,10) | RS1/16SS121J |
| R 5513 | (A,144,3) | RS1/16S202J |
| R 5514 | (A,144,4) | RS1/16S392J |
| R 5515 | (A,156,19) | RS1/16S123J |

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|--------|-----------|--------------|
| R 5516 | (A,132,3) | RS1/16S102J |
| R 5517 | (A,67,8) | RS1/16S151J |
| R 5518 | (B,62,15) | RS1/16S820J |
| R 5519 | (B,57,10) | RS1/16SS121J |
| R 5520 | (B,146,2) | RS1/16S151J |

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|--------|----------------|--------------|
| R 5521 | (B,144,3) | RS1/16S151J |
| R 5522 | (B,98,6) | RS1/16SS121J |
| R 5524 | (B,145,7) | RS1/16SS121J |
| R 5525 | (B,51,10) | RS1/16SS472J |
| R 5526 | (B,97,11) (EW) | RS1/16SS0R0J |

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|--------|----------------|--------------|
| R 5527 | (B,95,11) (EW) | RS1/16SS181J |
| R 5528 | (B,94,11) (EW) | RS1/16SS181J |
| R 5529 | (B,92,5) | RS1/16SS181J |
| R 5530 | (B,95,6) | RS1/16SS121J |
| R 5531 | (B,30,14) | RS1/16S151J |

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|--------|----------------|--------------|
| R 5532 | (B,96,6) | RS1/16SS121J |
| R 5533 | (A,133,5) (EW) | RS1/16S181J |
| R 5534 | (B,144,7) | RS1/16SS121J |
| R 5535 | (B,48,4) | RS1/16S470J |
| R 5536 | (B,146,7) | RS1/16SS121J |

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|--------|-----------------|--------------|
| R 5537 | (A,133,3) (EW) | RS1/16S181J |
| R 5538 | (B,147,7) | RS1/16SS121J |
| R 5539 | (A,136,10) (EW) | RS1/16S181J |
| R 5540 | (B,94,6) | RS1/16SS121J |
| R 5541 | (B,146,8) | RS1/16SS121J |

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|--------|-----------------|--------------|
| R 5542 | (A,138,12) (EW) | RS1/16S181J |
| R 5543 | (B,55,10) | RS1/16SS121J |
| R 5548 | (A,129,6) (EW) | RS1/16S0R0J |
| R 5549 | (A,148,11) | RS1/16S122J |
| R 5550 | (B,22,10) | RS1/16S392J |

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|--------|-----------|--------------|
| R 5558 | (B,64,5) | RS1/16S121J |
| R 5561 | (B,65,5) | RS1/16S121J |
| R 5563 | (B,44,7) | RS1/16S101J |
| R 5565 | (B,67,5) | RS1/16S121J |
| R 5566 | (A,161,4) | RS1/16SS151J |

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|--------|----------------|--------------|
| R 5568 | (A,160,4) | RS1/16SS151J |
| R 5573 | (B,68,5) | RS1/16S151J |
| R 5574 | (B,96,11) (EW) | RS1/16SS181J |
| R 5575 | (B,27,14) | RS1/16S151J |
| R 5585 | (A,72,6) | RS1/16S181J |

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|--------|----------------|--------------|
| R 5587 | (B,25,12) | RS1/16S151J |
| R 5588 | (B,28,12) | RS1/16S151J |
| R 5589 | (B,146,4) | RS1/16S151J |
| R 5590 | (A,159,5) | RS1/16SS151J |
| R 5592 | (B,62,13) (UC) | RS1/16S150J |

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|--------|-----------------|--------------|
| R 5593 | (A,140,12) (UC) | RS1/16S270J |
| R 5596 | (B,68,13) | RS1/16SS121J |
| R 5597 | (B,65,14) | RS1/16S820J |

Circuit Symbol and No.**Part No.**

| | | |
|--------|-----------|--------------|
| R 5598 | (B,66,14) | RS1/16S121J |
| R 5599 | (B,61,10) | RS1/16SS121J |
| R 5904 | (A,61,7) | RS1/16S151J |

CAPACITORS

| | | |
|--------|----------|--------------|
| C 5509 | (B,36,3) | CSZSQ100M6R3 |
| C 5516 | (B,36,5) | CKSRYB103K50 |
| C 5520 | (A,42,3) | CKSYB106K6R3 |

P**Unit Number: CWX2960(AVIC-N2/XU/UC)****Unit Number: CWX2929(AVIC-X1R/XU/EW)****Unit Name: GPS Unit****MISCELLANEOUS**

| | | |
|--------|----|---------------|
| IC 401 | IC | UPC2749T |
| IC 402 | IC | UPB1027GS |
| IC 441 | IC | NJM2100V |
| IC 461 | IC | ADC12H034CIMS |
| IC 501 | IC | PD3390A |

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|--------|---------|------------------|
| IC 502 | IC (EW) | PD6472A |
| | IC (UC) | PD6473A |
| IC 503 | IC | M5M5V216ATP-70HI |
| IC 504 | IC | MAX6364PUT29 |
| IC 532 | IC (EW) | LC72720YVS |

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|-------|------------|----------|
| Q 441 | Transistor | 2SB1132 |
| D 401 | Diode | 1SV314 |
| D 501 | Diode | RB751V40 |
| L 401 | Inductor | CTF1549 |
| L 402 | Inductor | CTF1486 |

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|-------|----------|--------------|
| L 403 | Inductor | CTF1486 |
| L 404 | Inductor | LCSA3N3R1608 |
| L 405 | Inductor | LCYB22NJ1608 |
| L 406 | Inductor | LCYB22NJ1608 |
| L 407 | Inductor | CTF1410 |

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|-------|---------------|--------------|
| L 408 | Inductor (EW) | CTF1410 |
| | Inductor (UC) | CTF1556 |
| L 409 | Inductor | LCTB1R0K2125 |
| L 410 | Inductor | CTF1547 |
| L 412 | Inductor | CTF1547 |

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|-------|----------|---------|
| L 413 | Inductor | CTF1547 |
| L 414 | Inductor | CTF1547 |
| L 415 | Inductor | CTF1547 |
| L 416 | Inductor | CTF1547 |
| L 417 | Inductor | CTF1547 |

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|-------|----------|---------|
| L 418 | Inductor | CTF1410 |
| L 441 | Inductor | CTF1410 |
| L 442 | Inductor | CTF1410 |
| L 461 | Inductor | CTF1410 |
| L 462 | Inductor | CTF1410 |

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|-------|----------|---------|
| L 467 | Inductor | CTF1547 |
| L 468 | Inductor | CTF1547 |
| L 469 | Inductor | CTF1410 |
| L 501 | Inductor | CTF1410 |
| L 502 | Inductor | CTF1410 |

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|-------|----------|---------|
| L 503 | Inductor | CTF1410 |
| L 504 | Inductor | CTF1410 |
| L 531 | Inductor | CTF1410 |

| <u>Circuit Symbol and No.</u> | | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | | <u>Part No.</u> |
|-------------------------------|------------------------|-----------------|-------------------------------|-----------|-----------------|
| X 401 | TCXO 16.368MHz | CWX2381 | R 532 | (EW) | RS1/16SS104J |
| X 501 | Radiator 32.768kHz | CSS1319 | R 533 | (EW) | RS1/16SS332J |
| | | | | (UC) | RS1/16SS103J |
| X 502 | Radiator 20.00MHz | CSS1549 | | | |
| X 532 | Radiator 4.332MHz (EW) | CSS1550 | R 534 | | RS1/16SS103J |
| F 401 | Filter | CTF1548 | R 535 | | RS1/16SS103J |
| | | | R 536 | | RS1/16SS0R0J |
| | | | R 537 | (EW) | RS1/16SS0R0J |
| | | | R 538 | (EW) | RS1/16SS0R0J |
| RESISTORS | | | CAPACITORS | | |
| R 401 | | RS1/16SS472J | C 401 | | CCSRCH100D50 |
| R 402 | | RS1/16SS472J | C 402 | | CCSSCH101J50 |
| R 403 | | RS1/16SS122J | C 403 | | CKSSYB104K10 |
| R 404 | | RS1/16SS622J | C 404 | | CCSSCH101J50 |
| R 405 | | RS1/16SS100J | C 405 | | CCSRUJ220J50 |
| R 406 | | RS1/16S271J | | | |
| R 407 | | RS1/16S2R2J | | | |
| R 441 | | RN1/16SC10R0D | | | |
| R 442 | | RN1/16SE1501D | C 406 | | CCSRUJ220J50 |
| R 443 | | RN1/16SE2402D | C 407 | | CKSSYB333K16 |
| | | | C 408 | | CKSSYB182K50 |
| R 444 | | RN1/16SE3302D | C 409 | | CSZS100M6R3 |
| R 445 | | RN1/16SE4702D | C 410 | | CKSSYB103K16 |
| R 446 | | RN1/16SE4702D | | | |
| R 447 | | RS1/16S432J | C 411 | | CKSSYB102K50 |
| R 448 | | RN1/16SE1002D | C 412 | | CKSSYB102K50 |
| | | | C 413 | | CKSSYB104K10 |
| R 449 | | RN1/16SE2202D | C 414 | | CKSSYB104K10 |
| R 450 | | RN1/16SE3302D | C 415 | | CKSSYB104K10 |
| R 451 | | RS1/16S103J | | | |
| R 452 | | RS1/16SS102J | C 416 | | CKSSYB104K10 |
| R 454 | | RS1/16SS102J | C 417 | | CKSSYB104K10 |
| | | | C 418 | | CKSSYB102K50 |
| R 460 | | RS1/16S0R0J | C 419 | | CKSSYB104K10 |
| R 461 | | RS1/16SS102J | C 420 | | CKSSYB104K10 |
| R 462 | | RS1/16SS102J | | | |
| R 463 | | RAB4CQ102J | C 421 | | CKSSYB102K50 |
| R 464 | | RAB4CQ333J | C 422 | | CKSSYB103K16 |
| | | | C 423 | | CKSSYB104K10 |
| R 465 | | RS1/16SS102J | C 424 | | CCSRCH102J50 |
| R 468 | (EW) | RS1/16SS471J | C 425 | | CCSRCH271J50 |
| R 469 | (EW) | RAB4CQ471J | | | |
| R 470 | | RAB4CQ471J | C 426 | | CCSRCH102J50 |
| R 471 | | RAB4CQ104J | C 427 | | CKSSYB104K10 |
| | | | C 428 | | CKSSYB103K16 |
| R 477 | | RS1/16SS222J | C 429 | | CCSRCH301J50 |
| R 478 | | RS1/16SS222J | C 430 | | CCSSCH120J50 |
| R 479 | | RS1/16SS222J | | | |
| R 480 | | RS1/16SS332J | C 431 | | CCSRCH301J50 |
| R 481 | | RS1/16SS332J | C 432 | | CKSSYB103K16 |
| | | | C 433 | | CCSRCH101J50 |
| R 482 | | RS1/16SS223J | C 434 | | CKSSYB102K50 |
| R 483 | | RS1/16SS473J | C 435 | | CKSSYB103K16 |
| R 501 | | RS1/16SS0R0J | | | |
| R 502 | | RS1/16SS102J | C 436 | | CKSSYB104K10 |
| R 503 | | RS1/16SS154J | C 441 | | CKSRYB104K16 |
| | | | C 442 | | CCSRCH101J50 |
| R 508 | (EW) | RS1/16SS472J | C 443 | | CKSRYB104K16 |
| | (UC) | RS1/16SS103J | C 444 | | CKSSYB103K16 |
| R 509 | | RS1/16SS473J | | | |
| R 510 | | RS1/16SS102J | C 445 | | CKSSYB104K10 |
| R 511 | | RS1/16SS103J | C 461 | 22μF/6.3V | CCH1408 |
| | | | C 462 | | CKSRYB104K16 |
| R 512 | | RS1/16SS473J | C 463 | | CKSRYB104K16 |
| R 513 | | RS1/16SS103J | C 464 | | CKSSYB103K16 |
| R 514 | | RS1/16SS473J | | | |
| R 515 | | RS1/16SS473J | C 465 | | CKSSYB103K16 |
| R 517 | | RS1/16SS103J | C 466 | | CKSSYB103K16 |
| | | | C 467 | | CKSSYB103K16 |
| R 519 | | RS1/16SS473J | C 468 | | CKSSYB104K10 |
| R 521 | | RS1/16SS473J | C 469 | | CSZS100M10 |

Circuit Symbol and No.**Part No.**

| | | |
|---|------------|--------------|
| A | C 470 | CKSSYB104K10 |
| | C 471 | CCSSCH101J50 |
| | C 501 | CKSSYB104K10 |
| | C 502 | CCSRCH150J50 |
| | C 503 | CCSRCH150J50 |
| ■ | C 504 | CKSSYB104K10 |
| | C 506 | CKSSYB104K10 |
| | C 507 | CKSSYB104K10 |
| | C 508 | CKSSYB104K10 |
| | C 509 | CKSSYB104K10 |
| B | C 511 | CKSSYB104K10 |
| | C 512 | CKSSYB104K10 |
| | C 514 | CSZS100M6R3 |
| | C 515 | CKSSYB104K10 |
| | C 516 | CKSSYB104K10 |
| ■ | C 517 | CKSSYB104K10 |
| | C 518 | CKSSYB104K10 |
| | C 535 (EW) | CSZS100M6R3 |
| | C 539 (EW) | CCSRCH100D50 |
| | C 540 (EW) | CCSRCH100D50 |
| C | C 541 (EW) | CCSRCH561J50 |
| | C 542 (EW) | CKSSYB104K10 |
| | C 543 (EW) | CSZS100M6R3 |
| | C 544 (EW) | CCSRCH331J50 |
| | C 545 (EW) | CKSSYB104K10 |

D**Unit Number:CWX2941****Unit Name:DVD Core Unit(MS3)****MISCELLANEOUS**

| | | | |
|---|---------|------------|------------------|
| D | IC 1101 | IC | AN8703FH |
| | IC 1201 | IC | BA5985FM |
| | IC 1202 | IC | AN8471SAT1 |
| | IC 1301 | IC | MNZS26EDCUB |
| | IC 1401 | IC | TC74LCX245FT |
| ■ | IC 1402 | IC | TC7SH04FU |
| | IC 1403 | IC | TC74LCX244FT |
| | IC 1405 | IC | TC74LCX244FT |
| | IC 1501 | IC | K4S641632H-TC75 |
| | IC 1502 | IC | TC74VCX74FT |
| E | IC 1503 | IC | MN677531KAUB |
| | IC 1504 | IC | TC74VCX74FT |
| | IC 1505 | IC | TC7PA04FU |
| | IC 1507 | IC | SM8707FV |
| | IC 1602 | IC | NJM2100M |
| ■ | IC 1604 | IC | NJM2100V |
| | IC 1605 | IC | PCM1742KE |
| | IC 1701 | IC | PE5395B |
| | IC 1702 | IC | M5M5V216ATP-70HI |
| | IC 1705 | IC | PD6474B |
| F | IC 1706 | IC | TC7SH08FU |
| | Q 1101 | Transistor | 2SB1260 |
| | Q 1102 | Transistor | 2SB1260 |
| | Q 1103 | Transistor | UN2211 |
| | Q 1104 | Transistor | 2SB709A |
| ■ | Q 1105 | Transistor | 2SD601A |
| | Q 1201 | Transistor | DTC124EU |
| | Q 1501 | Transistor | 2SA1037K |

Circuit Symbol and No.**Part No.**

| | | |
|--------|---------------------------|------------|
| D 1101 | Diode | 1SS355 |
| D 1102 | Diode | 1SS355 |
| D 1301 | Diode | UDZ2R7(B) |
| D 1302 | Chip LED | CL205IRXTU |
| L 1301 | Inductor | CTF1409 |
| L 1302 | Inductor | CTF1394 |
| L 1303 | Inductor | CTF1395 |
| L 1305 | Inductor | CTF1409 |
| L 1504 | Inductor | CTF1394 |
| L 1505 | Inductor | CTF1409 |
| L 1506 | Inductor | CTF1473 |
| L 1507 | Inductor | CTF1473 |
| L 1508 | Inductor | CTF1473 |
| L 1509 | Inductor | CTF1399 |
| L 1510 | Inductor | CTF1409 |
| L 1518 | Inductor | CTF1385 |
| L 1520 | Inductor | CTF1399 |
| L 1522 | Inductor | CTF1395 |
| L 1605 | Inductor | CTF1379 |
| L 1701 | Inductor | CTF1395 |
| L 1702 | Inductor | CTF1409 |
| L 1703 | Inductor | CTF1473 |
| L 1704 | Inductor | CTF1473 |
| X 1501 | Radiator 27MHz | CSS1609 |
| X 1701 | Ceramic Resonator 4.97MHz | CSS1575 |
| VR1502 | Semi-Fixed 2.2kΩ(B) | CCP1444 |

RESISTORS

| | |
|--------|--------------|
| R 1101 | RS1/16SS101J |
| R 1102 | RS1/16SS3R9J |
| R 1103 | RS1/16SS3R9J |
| R 1104 | RS1/16SS3R9J |
| R 1105 | RS1/16SS3R9J |
| R 1106 | RS1/16SS330J |
| R 1107 | RS1/16SS3R9J |
| R 1108 | RS1/16SS3R9J |
| R 1109 | RS1/16SS3R9J |
| R 1110 | RS1/16SS3R9J |
| R 1111 | RS1/16SS272J |
| R 1112 | RS1/16SS472J |
| R 1113 | RS1/16SS102J |
| R 1124 | RS1/16SS273J |
| R 1125 | RS1/16SS273J |
| R 1126 | RS1/16SS224J |
| R 1130 | RS1/16SS0R0J |
| R 1131 | RS1/16SS0R0J |
| R 1132 | RS1/16SS0R0J |
| R 1133 | RS1/16S2402D |
| R 1134 | RS1/16S1002D |
| R 1135 | RS1/16S2702D |
| R 1140 | RS1/16SS105J |
| R 1141 | RS1/16SS105J |
| R 1142 | RS1/16SS105J |
| R 1151 | RS1/16SS103J |
| R 1152 | RS1/16SS103J |
| R 1201 | RS1/16SS221J |
| R 1202 | RS1/16SS393J |
| R 1203 | RS1/16SS303J |
| R 1205 | RS1/16SS0R0J |

| <u>Circuit Symbol and No.</u> | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | <u>Part No.</u> | |
|-------------------------------|-----------------|-------------------------------|-----------------|---|
| R 1206 | RS1/16SS102J | R 1383 | RS1/16SS103J | |
| R 1209 | RS1/16SS221J | R 1391 | RS1/16SS103J | |
| R 1210 | RS1/16SS393J | R 1392 | RS1/16SS103J | A |
| R 1211 | RS1/16SS393J | R 1393 | RS1/16SS103J | |
| R 1212 | RS1/16SS393J | R 1394 | RS1/16SS471J | |
| R 1213 | RS1/16SS393J | R 1395 | RS1/16SS0R0J | |
| R 1214 | RS1/16SS221J | R 1396 | RS1/16SS0R0J | |
| R 1215 | RS1/16SS1R0J | R 1401 | RS1/16SS101J | |
| R 1216 | RS1/16SS1R0J | R 1403 | RAB4CQ220J | |
| R 1218 | RS1/16SS221J | R 1404 | RAB4CQ220J | |
| R 1219 | RS1/16SS221J | R 1405 | RAB4CQ220J | |
| R 1220 | RS1/16SS221J | R 1406 | RAB4CQ220J | |
| R 1221 | RS1/16SS822J | R 1407 | RS1/16SS220J | |
| R 1222 | RS1/16SS822J | R 1408 | RS1/16SS103J | B |
| R 1223 | RS1/16SS822J | R 1409 | RS1/16SS820J | |
| R 1224 | RS1/16SS563J | R 1410 | RS1/16SS820J | |
| R 1225 | RS1/16SS243J | R 1411 | RAB4CQ0R0J | |
| R 1226 | RS1/16SS473J | R 1412 | RS1/16SS100J | |
| R 1227 | RS1/16SS473J | R 1413 | RS1/16SS820J | |
| R 1228 | RS1/16SS1R0J | R 1414 | RAB4CQ820J | |
| R 1229 | RS1/16SS1R0J | R 1415 | RS1/16SS103J | |
| R 1230 | RS1/16SS1R0J | R 1418 | RS1/16SS221J | |
| R 1232 | RS1/16SS822J | R 1421 | RS1/16SS221J | |
| R 1233 | RS1/16SS243J | R 1423 | RS1/16SS221J | |
| R 1234 | RS1/16S391J | R 1424 | RS1/16SS221J | C |
| R 1235 | RS1/16S471J | R 1425 | RAB4CQ221J | |
| R 1236 | RS1/16SS513J | R 1426 | RAB4CQ221J | |
| R 1237 | RS1/16SS513J | R 1501 | RS1/16SS220J | |
| R 1301 | RS1/16SS222J | R 1502 | RAB4CQ220J | |
| R 1321 | RS1/16SS104J | R 1503 | RS1/16S101J | |
| R 1322 | RS1/16SS0R0J | R 1504 | RAB4CQ220J | |
| R 1323 | RS1/16SS221J | R 1505 | RS1/16S101J | |
| R 1324 | RS1/16SS221J | R 1508 | RAB4CQ220J | |
| R 1334 | RS1/16SS221J | R 1512 | RAB4CQ220J | |
| R 1336 | RS1/16SS103J | R 1518 | RAB4CQ220J | D |
| R 1337 | RS1/16SS103J | R 1522 | RAB4CQ220J | |
| R 1338 | RS1/16SS472J | R 1523 | RS1/16S0R0J | |
| R 1339 | RS1/16SS273J | R 1527 | RAB4CQ220J | |
| R 1340 | RS1/16SS472J | R 1533 | RS1/16SS201J | |
| R 1341 | RS1/16SS273J | R 1534 | RAB4CQ220J | |
| R 1342 | RS1/16SS273J | R 1538 | RAB4CQ220J | |
| R 1344 | RS1/16SS273J | R 1539 | RS1/16SS221J | |
| R 1349 | RS1/16SS562J | R 1542 | RS1/16SS103J | |
| R 1350 | RS1/16SS242J | R 1543 | RS1/16SS680J | |
| R 1352 | RS1/16S2702D | R 1544 | RS1/16SS0R0J | |
| R 1353 | RS1/16SS102J | R 1545 | RS1/16SS0R0J | E |
| R 1360 | RS1/16SS153J | R 1549 | RS1/16SS0R0J | |
| R 1361 | RS1/16SS105J | R 1550 | RS1/16SS0R0J | |
| R 1362 | RS1/16SS473J | R 1551 | RS1/16SS0R0J | |
| R 1363 | RS1/16SS101J | R 1552 | RS1/16SS471J | |
| R 1364 | RS1/16SS123J | R 1553 | RS1/16S68R0D | |
| R 1365 | RS1/16SS101J | R 1554 | RS1/16SS471J | |
| R 1367 | RS1/16SS473J | R 1555 | RS1/16SS0R0J | |
| R 1369 | RS1/16SS473J | R 1556 | RS1/16SS750J | |
| R 1375 | RS1/16SS103J | R 1557 | RS1/16SS0R0J | |
| R 1376 | RS1/16SS103J | R 1558 | RS1/16SS622J | |
| R 1377 | RS1/16SS103J | R 1559 | RAB4CQ0R0J | F |
| R 1378 | RS1/16SS103J | R 1560 | RS1/16SS122J | |
| R 1379 | RS1/16SS103J | R 1561 | RS1/16SS162J | |
| R 1380 | RS1/16SS103J | R 1562 | RS1/16SS0R0J | |

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 1563 RS1/16SS4R7J
 R 1564 RAB4CQ0R0J
 R 1565 RS1/16S101J
 R 1566 RS1/16S101J

R 1716
 R 1717
 R 1718
 R 1720

RS1/16SS221J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J

R 1567 RAB4CQ0R0J
 R 1568 RS1/16S101J
 R 1569 RS1/16S101J
 R 1570 RS1/16S101J
 R 1571 RS1/16S220J

R 1721
 R 1722
 R 1723
 R 1724
 R 1725

RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS222J
 RS1/16SS223J

R 1572 RAB4CQ0R0J
 R 1573 RS1/16SS473J
 R 1574 RAB4CQ0R0J
 R 1575 RAB4CQ0R0J
 R 1576 RAB4CQ0R0J

R 1726
 R 1727
 R 1728
 R 1730
 R 1731

RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS221J
 RS1/16SS104J

R 1577 RAB4CQ0R0J
 R 1578 RS1/16SS472J
 R 1579 RS1/16SS101J
 R 1587 RS1/16SS101J
 R 1595 RS1/16SS472J

R 1732
 R 1733
 R 1734
 R 1735
 R 1736

RS1/16SS0R0J
 RS1/16SS104J
 RS1/16SS221J
 RS1/16SS104J
 RS1/16SS104J

R 1596 RS1/16SS472J
 R 1597 RS1/16SS104J
 R 1598 RS1/16SS270J
 R 1601 RS1/16SS821J
 R 1602 RS1/16SS821J

R 1737
 R 1738
 R 1739
 R 1740
 R 1741

RS1/16SS104J
 RS1/16SS104J
 RS1/16SS330J
 RS1/16SS0R0J
 RS1/16SS0R0J

R 1603 RS1/16SS0R0J
 R 1604 RS1/16SS0R0J
 R 1605 RS1/16SS102J
 R 1606 RS1/16SS102J
 R 1607 RS1/16SS222J

R 1742
 R 1746
 R 1748
 R 1749
 R 1750

RS1/16SS473J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS103J
 RS1/16SS473J

R 1608 RS1/16SS222J
 R 1609 RS1/16SS472J
 R 1610 RS1/16SS472J
 R 1611 RS1/16SS472J
 R 1612 RS1/16SS472J

R 1751
 R 1752
 R 1753
 R 1754
 R 1756

RS1/16SS103J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J

R 1613 RS1/16SS103J
 R 1614 RS1/16SS103J
 R 1615 RS1/16SS472J
 R 1616 RS1/16SS472J
 R 1626 RS1/16SS0R0J

R 1757
 R 1758
 R 1759
 R 1760
 R 1761

RS1/16SS472J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16S1002D
 RS1/16SS105J

R 1627 RS1/16SS0R0J
 R 1628 RS1/16SS0R0J
 R 1637 RS1/16SS104J
 R 1638 RS1/16SS104J
 R 1642 RS1/16SS221J

R 1762
 R 1763
 R 1764
 R 1765
 R 1767

RS1/16SS473J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J

R 1643 RS1/16SS221J
 R 1645 RS1/16SS0R0J
 R 1647 RS1/16SS221J
 R 1648 RS1/16SS221J
 R 1649 RS1/16SS101J

R 1768
 R 1769
 R 1770
 R 1771
 R 1773

RS1/16SS473J
 RS1/16SS104J
 RS1/16SS473J
 RS1/16SS473J
 RS1/16SS103J

R 1650 RS1/16SS101J
 R 1651 RS1/16SS101J
 R 1653 RS1/16SS473J
 R 1656 RS1/16SS102J
 R 1701 RS1/16SS473J

R 1790
 R 1792
 R 1794
 R 1795
 R 1796

RS1/16SS473J
 RS1/16SS0R0J
 RS1/16SS222J
 RS1/16SS104J
 RS1/16SS473J

R 1704 RS1/16SS473J
 R 1706 RS1/16SS104J
 R 1707 RS1/16SS221J
 R 1708 RS1/16SS221J
 R 1714 RS1/16SS221J

R 1797
 R 1798
 R 1801
 R 1802
 R 1803

RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS104J

R 1715 RS1/16SS473J

R 1804

RS1/16SS102J

| <u>Circuit Symbol and No.</u> | <u>Part No.</u> | <u>Circuit Symbol and No.</u> | <u>Part No.</u> | |
|-------------------------------|-----------------|-------------------------------|-----------------|---|
| R 1805 | RS1/16SS102J | C 1313 | CKSSYB104K10 | |
| | | C 1314 | CKSRYB224K10 | |
| | | C 1315 | CKSRYB102K50 | A |
| | | C 1316 | CKSRYB393K16 | |
| <u>CAPACITORS</u> | | | | |
| C 1101 | CSZSC470M16 | C 1317 | CKSSYB104K10 | |
| C 1102 | CSZSR470M6R3 | C 1318 | CKSSYB103K16 | |
| C 1103 | CKSSYB104K10 | C 1319 | CKSSYB104K10 | |
| C 1104 | CKSSYB103K16 | C 1320 | CKSSYB103K16 | |
| C 1105 | CSZSR101M6R3 | C 1329 | CKSSYB104K10 | |
| C 1106 | CKSSYB104K10 | | | |
| C 1107 | CKSSYB103K16 | C 1330 | CKSRYB183K25 | |
| C 1108 | CKSSYB104K10 | C 1331 | CCSSCH470J50 | |
| C 1109 | CKSRYB473K25 | C 1332 | CKSRYB224K10 | |
| C 1110 | CKSRYB473K25 | C 1333 | CKSRYB224K10 | |
| | | C 1334 | CKSRYB102K50 | B |
| C 1111 | CKSSYB103K16 | | | |
| C 1112 | CKSRYB105K10 | C 1335 | CKSSYB562K25 | |
| C 1113 | CKSRYB105K10 | C 1336 | CKSSYB104K10 | |
| C 1114 | CKSSYB103K16 | C 1337 | CKSRYB102K50 | |
| C 1121 | CKSSYB221K50 | C 1338 | CKSRYB102K50 | |
| | | C 1339 | CKSRYB102K50 | |
| C 1122 | CKSRYB393K16 | | | |
| C 1124 | CKSSYB221K50 | C 1340 | CKSSYB104K10 | |
| C 1125 | CKSSYB104K10 | C 1341 | CCSSCH101J50 | |
| C 1126 | CKSSYB104K10 | C 1342 | CKSRYB391K50 | |
| C 1127 | CKSSYB104K10 | C 1343 | CKSRYB471K50 | |
| | | C 1344 | CKSRYB331K50 | |
| C 1128 | CKSRYB472K50 | | | C |
| C 1129 | CKSSYB104K10 | C 1346 | CKSRYB224K10 | |
| C 1132 | CKSRYB561K50 | C 1347 | CKSSYB104K10 | |
| C 1133 | CKSRYB561K50 | C 1348 | CKSSYB104K10 | |
| C 1134 | CKSRYB273K16 | C 1349 | CKSSYB104K10 | |
| | | C 1350 | CKSSYB104K10 | |
| C 1135 | CKSSYB473K10 | | | |
| C 1136 | CKSSYB104K10 | C 1351 | CKSSYB104K10 | |
| C 1137 | CKSSYB104K10 | C 1352 | CKSSYB104K10 | |
| C 1138 | CKSSYB104K10 | C 1401 | CCSSCH181J25 | |
| C 1139 | CKSSYB104K10 | C 1402 | CKSSYB104K10 | |
| | | C 1403 | CKSSYB104K10 | |
| C 1201 | CKSSYB104K10 | | | |
| C 1204 | CEV101M16 | C 1404 | CKSSYB104K10 | D |
| C 1205 | CKSRYB104K16 | C 1406 | CKSSYB104K10 | |
| C 1206 | CKSRYB103K50 | C 1501 | CKSRYB224K10 | |
| C 1207 | CKSRYB103K50 | C 1502 | CKSRYB224K10 | |
| | | C 1503 | CKSRYB224K10 | |
| C 1208 | CCSSCH5R0C50 | | | |
| C 1209 | CCSSCH470J50 | C 1504 | CKSRYB224K10 | |
| C 1213 | CKSRYB104K25 | C 1505 | CKSRYB224K10 | |
| C 1214 | CKSRYB104K25 | C 1507 | CKSRYB224K10 | |
| C 1215 | CKSSYB104K10 | C 1508 | CKSRYB224K10 | |
| | | C 1510 | CSZSC101M10 | |
| C 1216 | CSZSC470M16 | | | |
| C 1217 | CKSRYB104K25 | C 1513 | CKSRYB224K10 | |
| C 1218 | CSZSC470M16 | C 1514 | CKSRYB224K10 | E |
| C 1221 | CKSRYB104K25 | C 1515 | CKSRYB224K10 | |
| C 1301 | CKSSYB104K10 | C 1516 | CKSRYB224K10 | |
| | | C 1517 | CKSRYB224K10 | |
| C 1302 | CKSSYB104K10 | | | |
| C 1303 | CKSSYB224K6R3 | C 1518 | CKSRYB224K10 | |
| C 1304 | CKSSYB104K10 | C 1519 | CKSRYB224K10 | |
| C 1305 | CKSSYB224K6R3 | C 1520 | CKSRYB224K10 | |
| C 1306 | CKSSYB471K50 | C 1521 | CKSRYB224K10 | |
| | | C 1522 | CKSRYB224K10 | |
| C 1307 | CKSSYB104K10 | | | |
| C 1308 | CKSRYB224K10 | C 1523 | CKSRYB224K10 | |
| C 1309 | CKSSYB104K10 | C 1524 | CKSRYB224K10 | |
| C 1310 | CKSSYB104K10 | C 1525 | CKSSYB104K10 | F |
| C 1311 | CKSSYB103K16 | C 1526 | CKSRYB224K10 | |
| | | C 1527 | CKSRYB224K10 | |
| C 1312 | CKSSYB103K16 | | | |
| | | C 1528 | CKSSYB104K10 | |

Circuit Symbol and No.**Part No.**

C 1529 CKSRYB224K10
 C 1530 CKSRYB224K10
 C 1531 CKSSYB471K50
 C 1532 CKSSYB104K10

C 1533 CKSSYB104K10
 C 1534 CKSRYB224K10
 C 1535 CKSSYB104K10
 C 1538 CKSSYB104K10
 C 1539 CKSRYB105K10

C 1540 CKSRYB105K10
 C 1542 CKSSYB104K10
 C 1543 CSZS4R7M16
 C 1544 CKSSYB104K10
 C 1547 CSZSR330M10

C 1548 CKSSYB104K10
 C 1549 CKSSYB104K10
 C 1550 CKSSYB104K10
 C 1551 CKSSYB104K10
 C 1552 CKSSYB104K10

C 1554 CKSSYB104K10
 C 1555 CKSSYB104K10
 C 1556 CKSSYB104K10
 C 1557 CKSSYB104K10
 C 1558 CKSSYB104K10

C 1559 CKSSYB104K10
 C 1560 CKSSYB104K10
 C 1562 CKSSYB104K10
 C 1563 CKSSYB104K10
 C 1564 CKSSYB104K10

C 1566 CCSSCH7R0D50
 C 1567 CCSSCH7R0D50
 C 1605 CKSSYB471K50
 C 1606 CKSSYB471K50
 C 1609 CKSRYB104K16

C 1610 CKSRYB224K10
 C 1611 CSZSR100M16
 C 1612 CKSQYB225K10
 C 1615 CCSRCH471J50
 C 1616 CCSRCH471J50

C 1617 CCSRCH471J50
 C 1618 CCSRCH471J50
 C 1619 CKSRYB104K16
 C 1641 CKSRYB104K16
 C 1650 CKSYB475K16

C 1651 CKSYB475K16
 C 1676 CSZSR100M10
 C 1701 CKSRYB224K10
 C 1702 CKSRYB224K10
 C 1703 CKSRYB224K10

C 1706 CKSRYB224K10
 C 1707 CKSRYB224K10
 C 1708 CKSSYB471K50
 C 1710 CKSRYB224K10
 C 1711 CKSSYB103K16

C 1712 CKSSYB103K16
 C 1713 CKSRYB224K10
 C 1716 CKSRYB224K10
 C 1717 CKSSYB104K10
 C 1718 CKSRYB224K10

C 1719 CKSSYB104K10

Circuit Symbol and No.**Part No.**

C 1720 CKSRYB224K10
 C 1721 CKSSYB104K10
 C 1722 CKSRYB224K10
 C 1723 CKSRYB224K10

C 1724 CKSSYB103K16
 C 1727 CKSSYB224K6R3

E**Unit Number:CWX3154****Unit Name:Compound Unit(A)**

Q 1299 Photo-taransistor CPT231SCTD
 S 1201 Spring Switch(12cm) CSN1069
 S 1202 Spring Switch(8cm) CSN1069
 S 1203 Spring Switch(DISC SENS) CSN1069
 S 1204 Spring Switch(DISC SENS) CSN1070

S 1205 Spring Switch(8cm) CSN1070
 R 1298 RS1/16S0R0J
 R 1299 RS1/16S0R0J

F**Unit Number:CWX3156****Unit Name:Compound Unit(B)**

S 1206 Switch(CLAMP) CSN1051

M**Unit Number:CZW3087****Unit Name:Main Unit****MISCELLANEOUS**

IC 3801 IC BA00AST
 IC 3802 IC BA6247FP
 IC 3803 IC TA78L05F
 IC 3804 IC TC7S14FU
 IC 3805 Photo-interrupter GP2L24B

Q 3801 Transistor DTC124EU
 Q 3802 Transistor 2SA1037K
 Q 3803 Transistor DTC124EU
 D 3801 Diode UDZS5R6(B)
 D 3802 Diode 1SS355

L 3801 Inductor LCTA150J2520
 L 3802 Inductor LCTA150J2520

RESISTORS

R 3801 RS1/16S103J
 R 3802 RS1/16S222J
 R 3803 RS1/16S471J
 R 3804 RS1/16S102J
 R 3805 RS1/16S102J

R 3806 RS1/16S102J
 R 3807 RS1/16S102J
 R 3808 RS1/16S103J
 R 3809 RS1/16S222J
 R 3810 RS1/16S222J

R 3811 RS1/16S102J
 R 3812 RS1/16S102J

| <u>Circuit Symbol and No.</u> | <u>Part No.</u> |
|-------------------------------|-----------------|
| R 3813 | RS1/16S472J |
| R 3814 | RS1/16S102J |
| R 3815 | RS1/16S0R0J |
| R 3816 | RS1/16S0R0J |
| R 3817 | RS1/16S0R0J |
| R 3818 | RS1/16S473J |
| R 3819 | RS1/16S0R0J |
| R 3821 | RS1/16S473J |
| R 3822 | RS1/16S512J |
| R 3823 | RS1/16S0R0J |

CAPACITORS

| | |
|--------|--------------|
| C 3801 | CKSQYB105K16 |
| C 3802 | CKSQYB105K16 |
| C 3803 | CKSRYB104K16 |
| C 3804 | CKSRYB104K16 |
| C 3805 | CKSRYB104K16 |
| C 3806 | CKSRYB223K50 |
| C 3807 | CKSRYB223K50 |
| C 3808 | CEVW101M16 |
| C 3809 | CEVW101M16 |
| C 3810 | CKSRYB104K16 |
| C 3811 | CEV100M16 |
| C 3812 | CKSRYB104K16 |
| C 3813 | CKSRYB102K50 |
| C 3815 | CKSQYB104K50 |
| C 3819 | CEVW101M16 |

N

Unit Number:CZW3088

Unit Name:SW Unit

| | | |
|--------|----------------|---------|
| S 3831 | Switch (ANGLE) | CSN1052 |
| S 3832 | Switch (LIFT) | CSN1052 |

O

Unit Number:CZW3089

Unit Name:Volume Unit

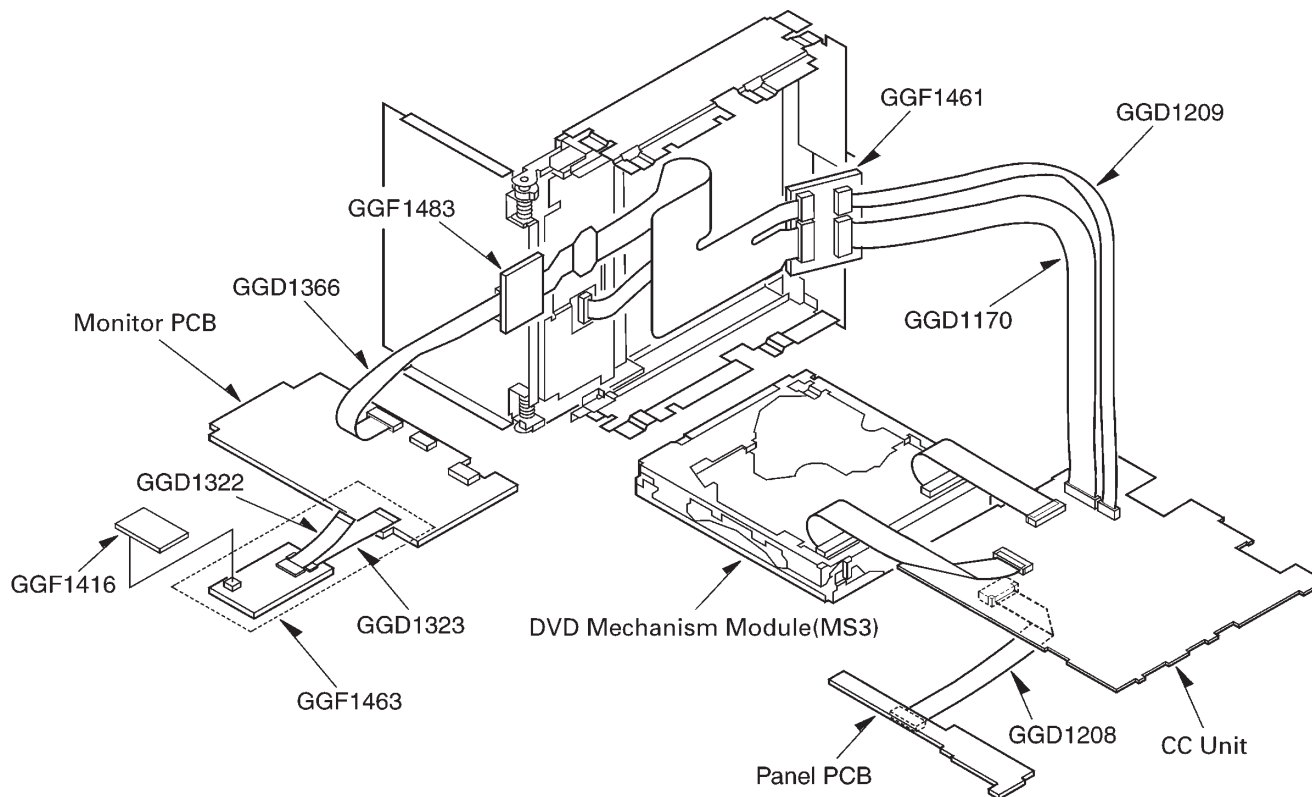
| | | |
|--------|----------------------|---------|
| VR3841 | Rotary (Angle sense) | CCW1025 |
|--------|----------------------|---------|

Miscellaneous Parts List

| | | |
|--------|---------------------------|---------|
| | Pickup Unit(Service)(DP5) | CXX1915 |
| M 1 | Motor Unit(LOADING) | CXC4659 |
| M 2 | Motor Unit(CARRIAGE) | CXC4314 |
| M 3 | Motor(SPINDLE) | CXM1308 |
| M 3001 | Motor Unit(Position) | CXB9515 |
| M 3002 | Motor Unit(Angle) | CXB9516 |
| M 100 | Fan Motor | CXM1284 |
| M 101 | Fan Motor | CXM1289 |
| M 102 | Fan Motor | CXM1293 |
| | LCD Panel | CWX3056 |
| | LCD | CAW1870 |

6. ADJUSTMENT

6.1 JIG CONNECTION DIAGRAM



*1) After connecting the Hideaway Unit, please perform adjustment.

● JIG's List

| Function | Name | Jig No. |
|--|-------------------|---------|
| CC Unit (CN609) <--> Main Unit (CN3801) | PCB | GGF1461 |
| CC Unit (CN609) <--> GGF1461 | 40P FFC | GGD1170 |
| CC Unit (CN609) <--> GGF1461 | 20P FFC | GGD1209 |
| CC Unit (CN608) <--> Monitor PCB (CN4002) | PCB | GGF1483 |
| CC Unit (CN2701) <--> Panel PCB (CN5901) | 18P FFC | GGD1208 |
| Monitor PCB (CN4002) <--> GGF1483 | 36P FFC | GGD1366 |
| Monitor Adjustment PCB (*2) | PCB | GGF1416 |
| JIG connector Assy (*2) | PCB and FFC | GGF1463 |
| Monitor PCB ("FOR SERVICE" 14P terminal) <--> GGF1463 (*2) | 14P FFC | GGD1323 |
| TEST DISC (Operation check) | CD-ROM or DVD-ROM | GGV1137 |

*2) Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 and GGF1463 at the time of monitor adjustment. As you will find lands for 14 pins with 0.8mm pitch at the left top part of the monitor board, directly solder a flexible PCB of GGD1323 for adjustment. As GGD1322 is not used, be careful not to short the terminal.

6.2 DVD ADJUSTMENT



1) Precautions

This product uses 5V and 3.3V as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2V) and VHALF (approximately 1.65V).

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up. The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device. When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- After the power supply is turned on, regulator ON the following adjustment and measurement are promptly done.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.
- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed.
- Press the EJECT key only after the disk has stopped completely.
- If the product hangs up turn the power OFF immediately.
- Laser diodes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

Attention)

- Test mode starting procedure
Please select "MS3 check" (page 230) to start test mode.

(Additional Information)

IP-BUS slave unit (i.e. Multi-CD changer) test mode starting procedure.

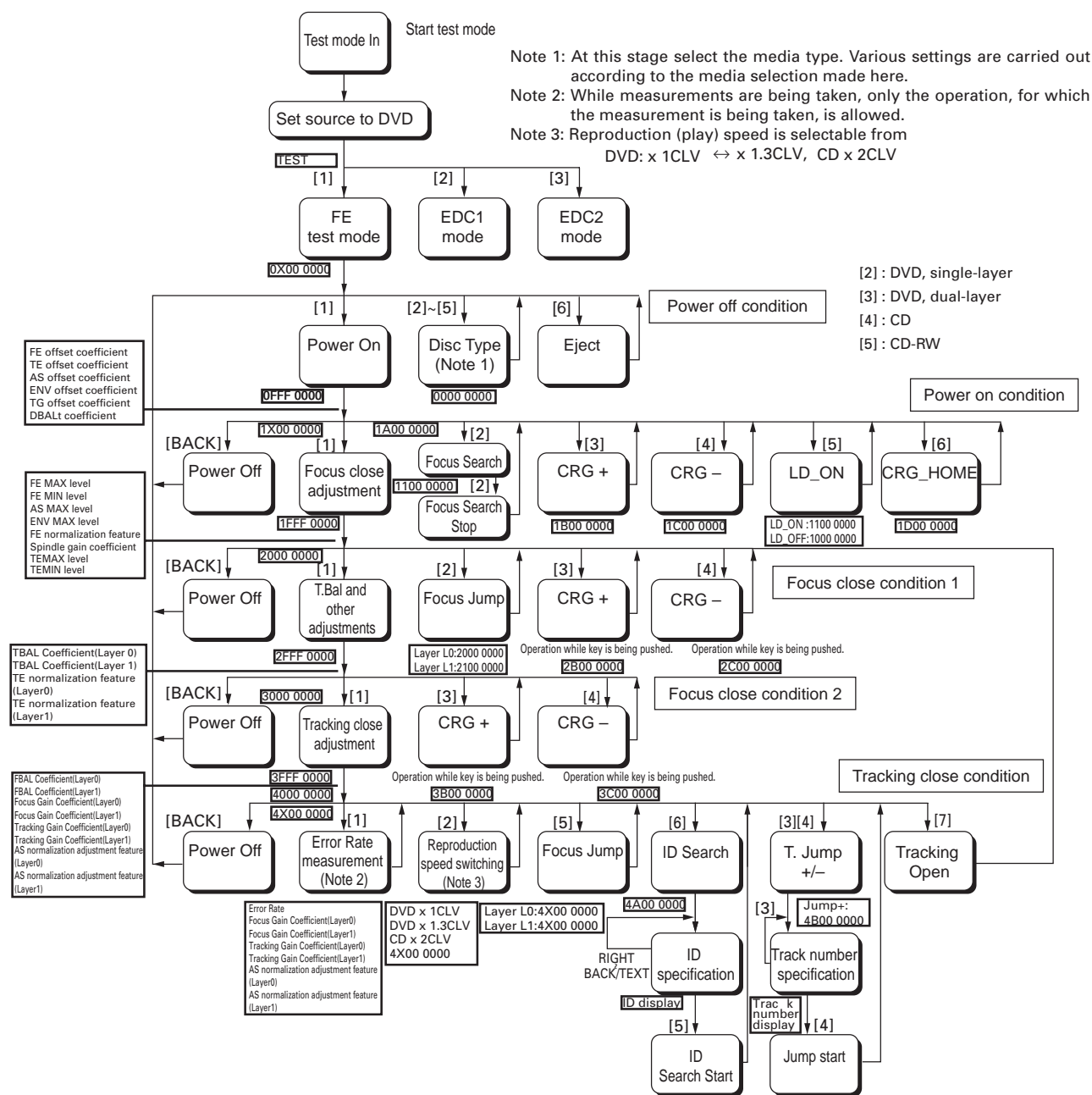
- To enter the test mode
While pressing the SOURCE and ANGLE- keys at the same time, reset.

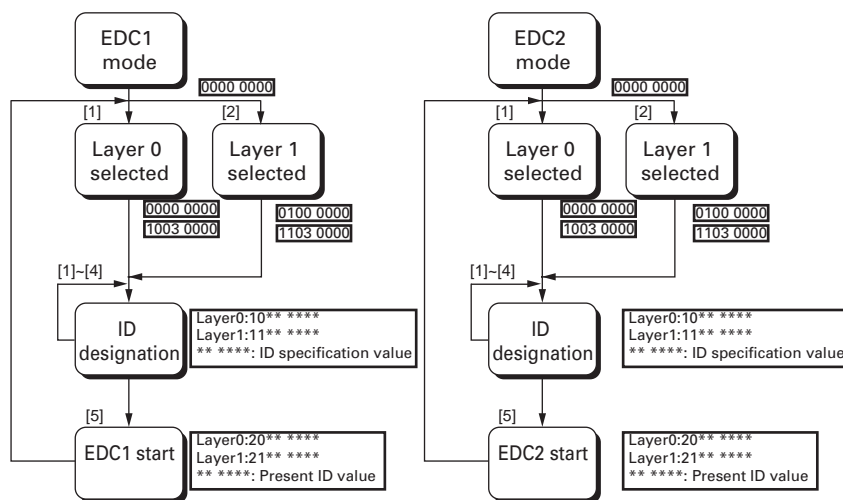
• Key Assign table

| AVIC-N2/XU/UC or AVIC-X1R/XU//EW | MAIN UNIT KEY (6 keys type) |
|----------------------------------|-----------------------------|
| UP | UP |
| DOWN | DOWN |
| LEFT | LEFT |
| RIGHT | RIGHT |
| BAND | BAND |
| REAR | 1 |
| WIDE | 2 |
| ENT | 3 |
| ANGLE- | 4 |
| ANGLE+ | 5 |
| EQ | 6 |

* Refer to service manual for adjustment of the slave unit.

● Front-End test mode flow chart





F-close and F-search cannot be executed, unless LD-ON is set.

[If F-close isn't executed within 9 seconds after LD-ON, it switches to LD-OFF automatically.

And even if F-search is executed within 9 seconds after LD-ON, it also switches to LD-OFF.]

Please carry out F-close after carrying out power-off at once and carrying out power-on again, when carrying out F-close after performing F-search.

The track number designation is selected from the track numbers already prepared for selection.

Switching to cyclic operation is made at step REAR, and the decision is finalized (entered) in step BACK/TEXT.

For CD: Tracks 1, 4, 10, 11 and 32.

For DVD: Tracks 1, 4, 10, 11, 32, 64 and 100.

Method for designating an ID address:

- A number of digits are determined through commands RIGHT and LEFT. Numerical UP/DOWN operations are performed through commands REAR and BACK/TEXT. The decision is finalized (entered) with command ATT.

Display

Error Code List

| Error status from DVD microcomputer | Contents | Display |
|-------------------------------------|-----------------------------|------------------------------|
| 0X50 | Mecha. error | No display |
| 0X40 | No disc | No display |
| 0X30 | The temperature is abnormal | Thermal Protection in Motion |
| 0X20 | Read error | Error-02-XX |
| 0XE2 | Non-playable disc | NON-PLAYABLE DISC |
| 0X90 | Different region disc | DIFFERENT REGION DISC |
| 0XFF | Undefined error | Error-FF |

Error code of read error(Part of XX)

| Error Code | Contents | Display |
|------------|--|--|
| 0X99 | Data cannot read | Please confirm the disc |
| 0X80 | The address cannot be found | Please confirm the disc |
| 0X90 | Focus error | Please confirm the disc |
| 0X91 | Spindle lock NG | DVD is stopping because mechanism detected abnormality |
| 0X92 | Carriage home NG | DVD is stopping because mechanism detected abnormality |
| 0X93 | FOK error | Please confirm the disc |
| 0X94 | ID/Subcode cannot be read | Please confirm the disc |
| 0X95 | High spindle rotation | DVD is stopping because mechanism detected abnormality |
| 0X96 | Row spindle rotation | DVD is stopping because mechanism detected abnormality |
| 0X98 | TOC cannot be found | Please confirm the disc |
| 0X9A | AV chip error | DVD is stopping because mechanism detected abnormality |
| 0X9B | RecoveryNG(BE) | DVD is stopping because mechanism detected abnormality |
| 0X9C | Play state error | |
| 0X9D | Disc data error | |
| 0X9E | Surface error (Disc distinction is improper) | |

● Skew adjustment

The skew adjustment is to adjust the pickup and the flatness of the disc so that the beam from the pickup continues to go to the disc vertically. In MS3 mecha, the pickup shaft on the inner track near the carriage motor is fixed, so the fixed position is regarded as the standard and the flatness is adjusted. Observing the RF waveform on the oscilloscope, repeat the adjustment on the inner track position and the outer track position, and narrow the adjusted value.

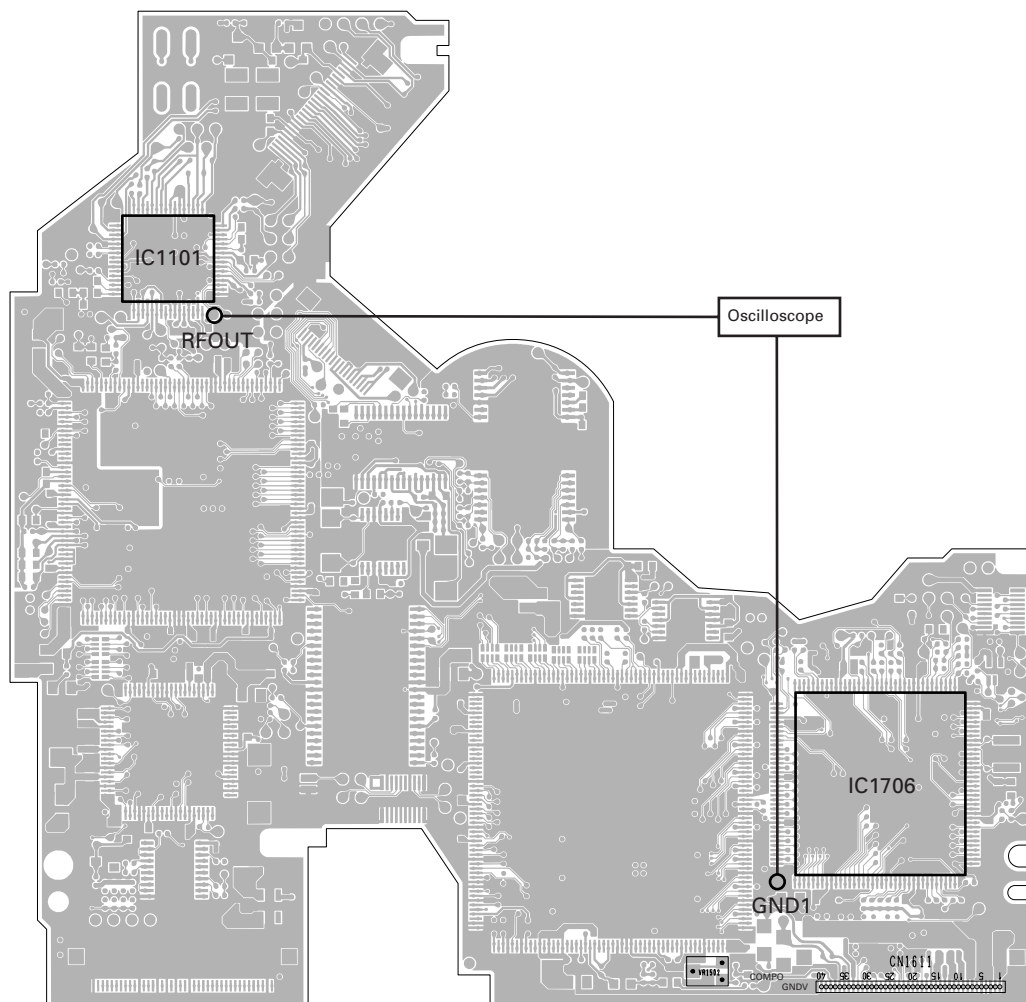
If any of the following replacements have been performed on the system, adjustments for pick up, must be conducted:

1. Pick up unit replacement
2. Spindle motor replacement
3. Carriage chassis replacement
4. Pick up unit main shaft replacement
5. Pick up unit sub-shaft replacement

Measurement device and tools : Oscilloscope
 Allen key wrench
 40-pin flexible extension (GGD1170)
 Screw rock(GYL1001)

Disk used : GGV1018
 Measurement reference : GND1
 Measurement point : RFOUT

Connection diagram
 DVD core unit(MS3)



Symptoms in case of poor adjustment: Error efficiency deteriorated: 10^{-3} (Optimum value: 10^{-4} or lower)

High jitter of the RF signal RF waveform deformed

Unstable operation in tracking closing and servo control

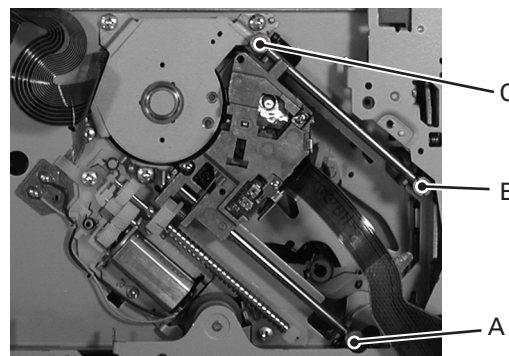
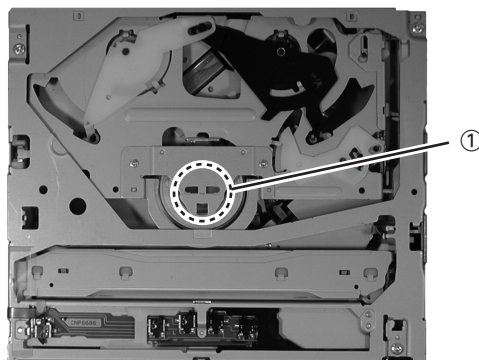
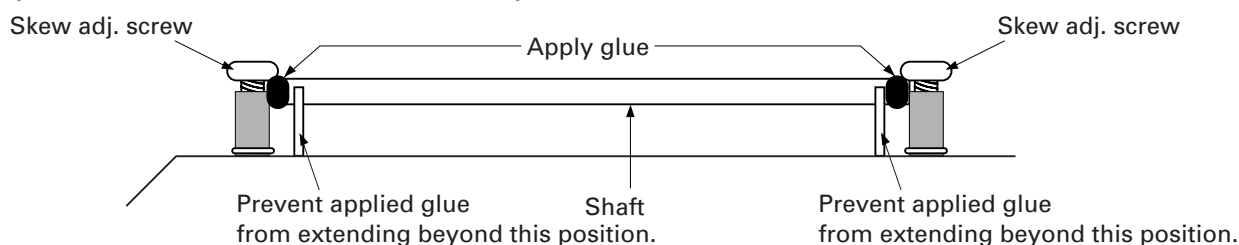
Caution: Avoid exposing your eyes to laser beams for a long time.

Preparation for adjustment: Clean both ends of the shafts.

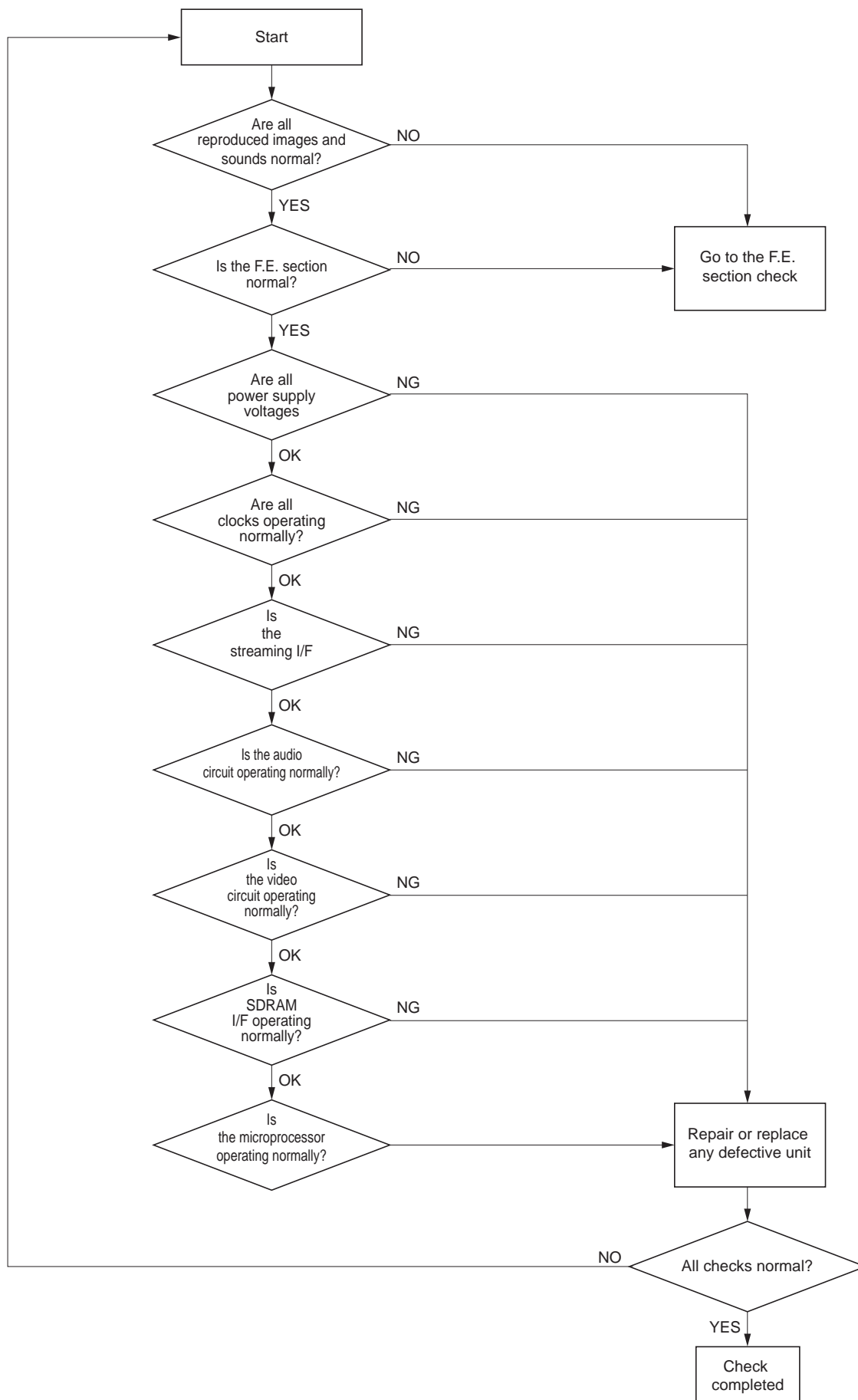
Use brand new skew screws supplied with the service kit GXX1234.

Procedures:

1. Place the DVD mechanism module upside down.
To avoid the disc from being robbed when it is turned upside down, first put a coin of about 1.5 mm on the table, then turn the disc upside down and set it so that the ① in the figure comes to the point immediately above the coin.
2. After replacing the pickup (by referring to the procedures of "Removing the Pickup."), roughly adjust the three skew screws through visual check so that the pickup is mounted in parallel to the CRG chassis around the inner and outer tracks.
3. Connect an oscilloscope as shown in the connecting diagram.
4. Turn on the power of the product. Load the test disc (GGV1018).
5. In the front-end test mode, set the disc type to DVD layer 1. Then, turn on the power. Move the pickup toward the inner tracks.
6. Turn on the laser diodes.
7. With the focus servo closed, complete all automatic adjustments. Close the tracking servo, and then complete all automatic adjustments.
- 8 Follow the next procedures, from 8-1 to 8-5, and adjust the (three) skew screws.
- 8-1 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level of oscilloscope becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)
- 8-2 Move the pickup toward the outer track and turn the skew adjustment screw B so that the RF level becomes the maximum.
(Tangential adjustment at the outer track position: Adjust the flatness of the disc at the outer track position with the adjustment screw B)
- 8-3 Leave the pickup at the outer track position and turn the skew adjustment screws A and B in the same direction alternately one quarter at a time (A•B•A•B ...) so that the RF level becomes the maximum.
(Radial adjustment at the outer track position: Keeping the flatness at the outer track position, adjust the flatness of the whole disk with the adjustment screws A and B)
- 8-4 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)
- 8-5 Repeat the steps from 8-2 to 8-4 three times, and adjust at the position where the RF level becomes the maximum.
9. Turn off the power in the test mode. After confirming that the disc has stopped, eject the disc.
10. Adjust with a screw rock the shaft and skew adjustment screw to the same state as initial one.



● Back end section check flow chart



Check 1: Are all power supply voltages normal?

Reproduce DVD-REF-A1 Title 1.

Verify the voltage of the sensing pin.

If results are not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components.

| NO. | Verification location | Rated value | Unit |
|-----|-----------------------|--------------|------|
| 1 | VD8-PGND | 8 ± 0.4 | V |
| 2 | VD33-GND | 3.3 ± 0.3 | V |
| 3 | SRVDD33-GND | 3.3 ± 0.3 | V |
| 4 | VCC5-GND | 5 ± 0.25 | V |
| 5 | AVCC5-GND | 5 ± 0.3 | V |
| 6 | VCC33-GND | 3.3 ± 0.15 | V |
| 7 | VCC18-GND | 1.8 ± 0.15 | V |
| 8 | VCC25-GND | 2.5 ± 0.2 | V |

A

Check 2: Are all clocks operating normally?

Reproduce DVD-REF-A1 Title 1.

Checks are to be conducted with a GND reference.

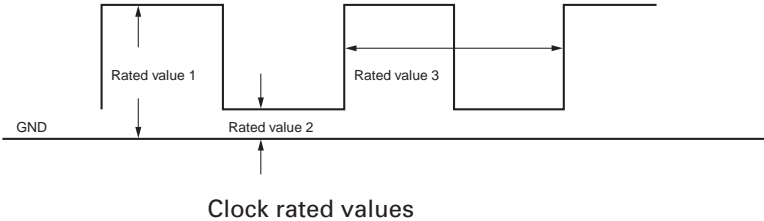
If locations listed under "verification location 2", can be verified, there will be no need to perform verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in the vicinity of IC1507.

B

| NO. | Verification location 1 (contact measurements) | Verification location 2 | Media | Rated value1 | Rated value 2 | Rated value 3 |
|-----|--|-------------------------|-------|--------------|---------------|-----------------------|
| 1 | CLK27 | IC1503 96pin | ALL | 2.65V~VCC33 | GND~0.65V | 27MHz±50ppm |
| 2 | EXTCK1 | IC1503 100pin | DVD | 2.65V~VCC33 | GND~0.65V | 36.8640MHz±100ppm |
| 3 | EXTCK1 | IC1503 100pin | CD | 2.65V~VCC33 | GND~0.65V | 33.8688MHz±100ppm |
| 4 | MCK16 | IC1301 79pin | ALL | 2.33~VCC33 | GND~0.99V | 16.9344MHz±100ppm |
| 5 | MCK33 | IC1601 3,33pin | ALL | 2.33~VCC33 | GND~0.10V | 33.8688MHz~40.0000MHz |

C



D

E

F

A

Check 3: Is the streaming I/F operating normally?

Reproduce DVD-REF-A1 Title 1.

Checks are to be conducted with a GND reference.

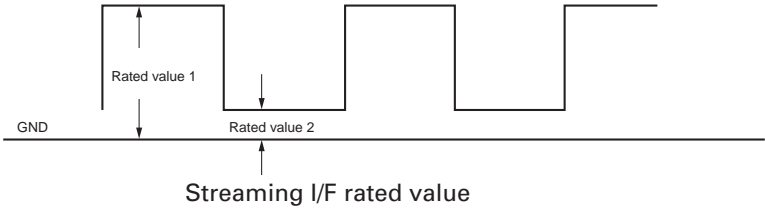
If the locations listed under "verification location 2" can be verified, then there is no need to conduct verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output "input" of the checked location.

C

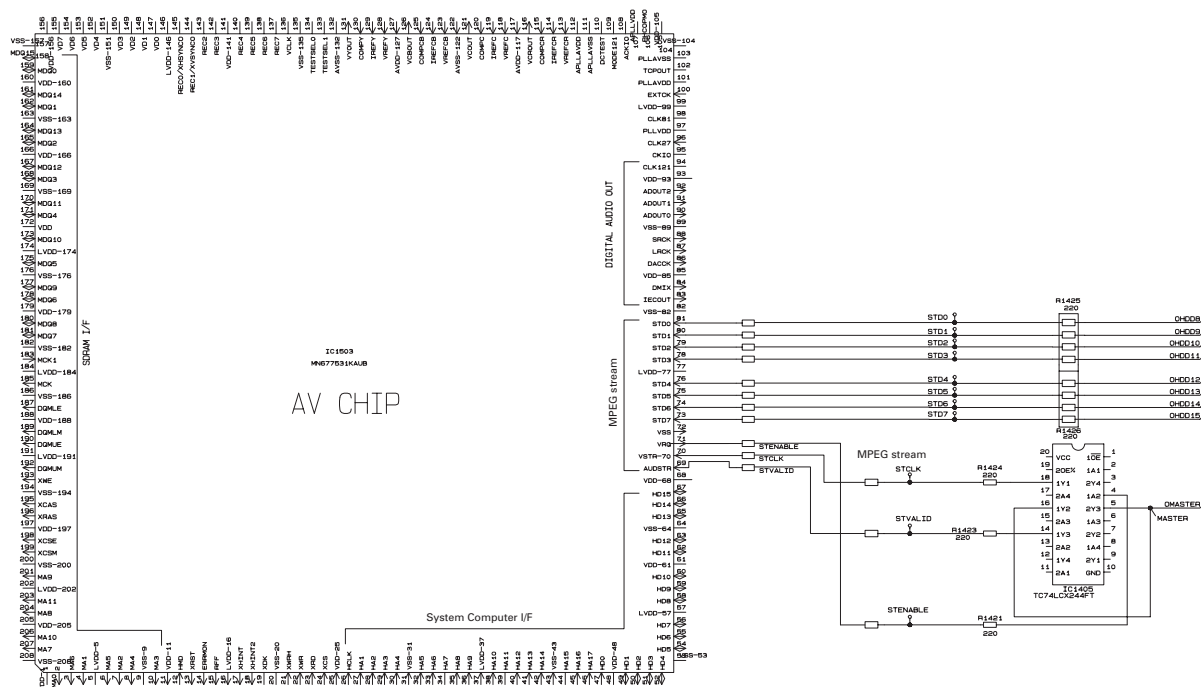
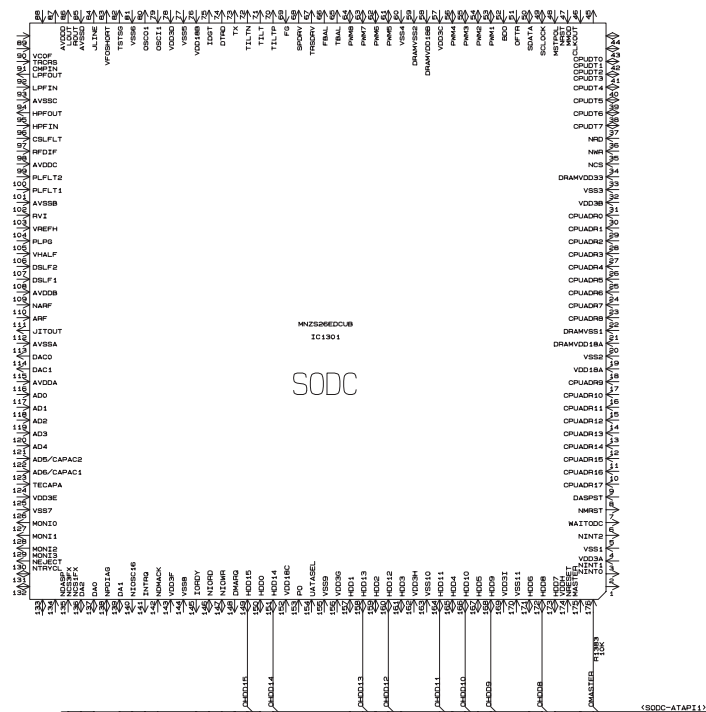
| NO. | Verification location 1 (contact measurements) | Verification location2 | Verification Media | Rated value 1 | Rated value 2 | Reference waveform | Others |
|-----|--|------------------------|--------------------|---------------|---------------|--------------------|------------------------------|
| 1 | STD0 | IC1503 81pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD8 at R1425 |
| 2 | STD1 | IC1503 80pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD9 at R1425 |
| 3 | STD2 | IC1503 79pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD10 at R1425 |
| 4 | STD3 | IC1503 78pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD11 at R1425 |
| 5 | STD4 | IC1503 76pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD12 at R1426 |
| 6 | STD5 | IC1503 75pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD13 at R1426 |
| 7 | STD6 | IC1503 74pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD14 at R1426 |
| 8 | STD7 | IC1503 73pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 1 | Line name OHDD15 at R1426 |
| 9 | STCLK | IC1503 70pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 2 | Line name ODA2 at IC1405 |
| 10 | STVALID | IC1503 69pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 2 | Line name OINTRQ at IC1405 |
| 11 | MASTER | IC1301 176pin | DVD | 2V~VCC33 | GND~0.8V | Waveform 2 | Line name STENABLE at IC1405 |

D



E

F



Check 4: Is the audio circuit operating normally?

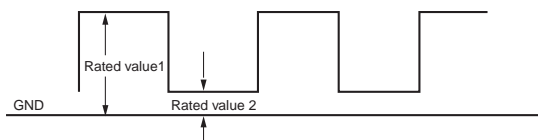
Reproduce DVD-REF-A1 Title 2 Chapter (48V/16-bit/1 kHz/0dB). Verify the circuit described in Figure 2.

Checks are to be conducted using GND_{DAU1} (sensing pins) as a reference.

If the locations, listed under "verification location 2", can be verified, there is no need to conduct verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in the vicinity of the main components.

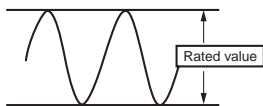
| NO. | Verification location 1 | Verification location 2 | Rated value 1 | Rated value 2 | Reference waveform |
|-----|-------------------------|-------------------------|---------------|----------------|--------------------|
| 1 | AOUT0 | IC1503 90pin | 2.0V and over | 0.8V and lower | Waveform 3 |
| 2 | SRCK | IC1605 1pin | 2.0V and over | 0.8V and lower | Waveform 3 |
| 3 | LRCK | IC1605 3pin | 2.0V and over | 0.8V and lower | Waveform 3 |



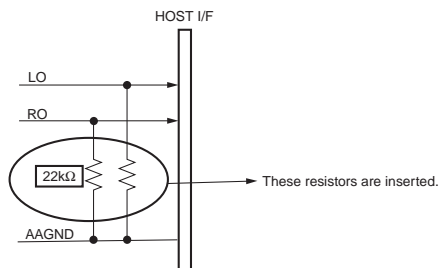
Three serial output rated values

Checks are conducted with the measurement circuit below.

| NO. | Verification location 1 | Verification location 2 | Rated value | Reference waveform |
|-----|-------------------------|-------------------------|-------------|--------------------|
| 4 | LO | CN1611 36pin | 1100±150mV | Waveform 4 |
| 5 | RO | CN1611 34pin | 1100±150mV | Waveform 4 |



Analog audio outputs (LO and RO) rated values



LO and RO output measurement circuit



Check 5: Is the video circuit operated normally?

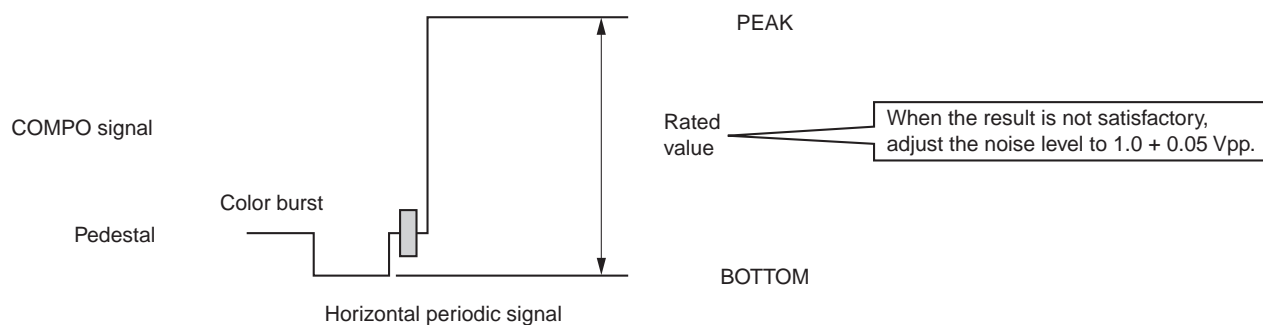
Reproduce DVD-REF-A1 Title 2 Chapters (White 100IRE).

Monitor the output with the oscilloscope, by setting the COMPO signal to a GND reference.

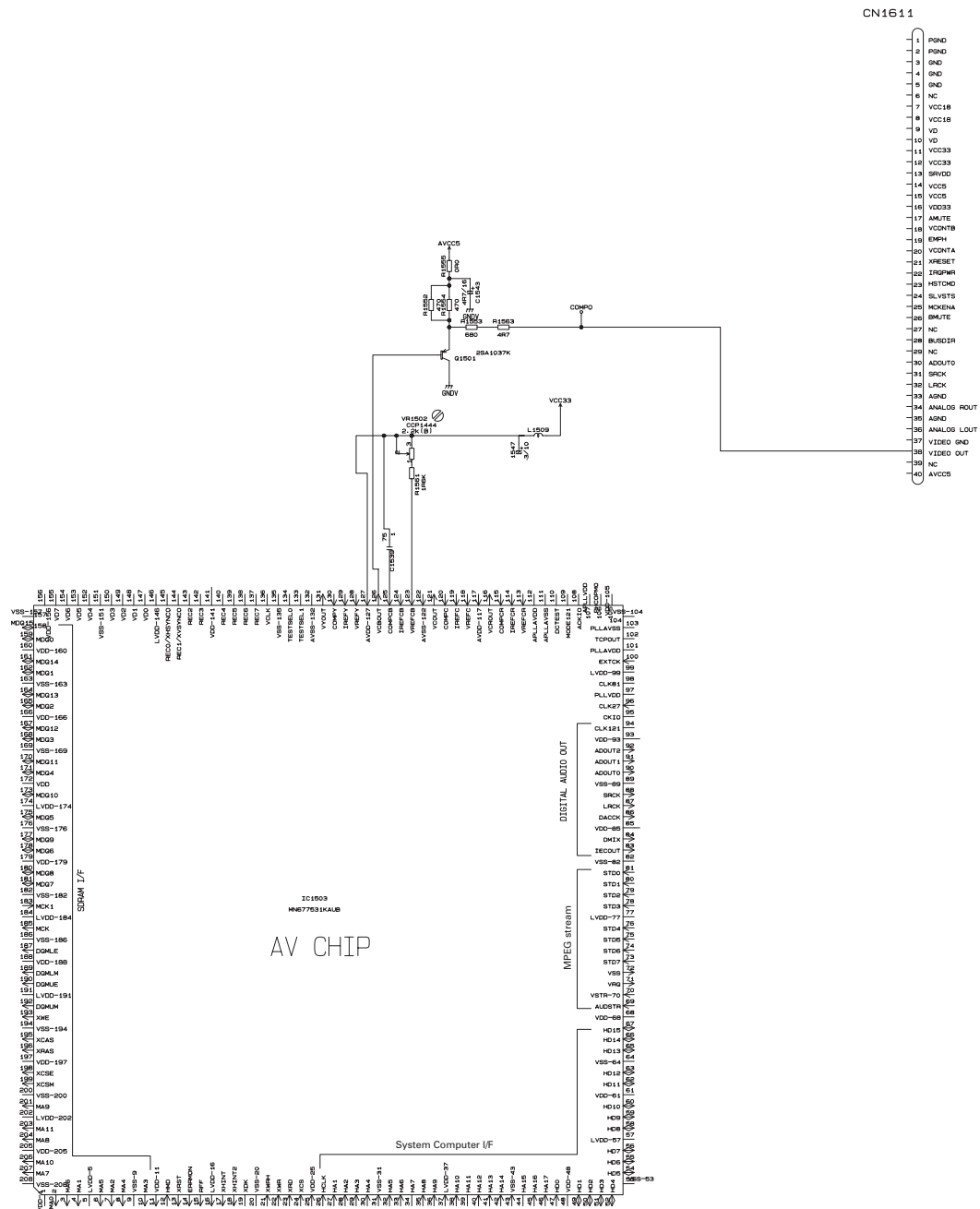
Set the Trigger mode to the TV trigger, and the Trigger line to line-150.

| NO. | Verification location (sensing pin) | Rated value | Reference waveform |
|-----|--|----------------------|-----------------------|
| 1 | COMPO | $1.0 \pm 0.05V_{pp}$ | Waveform 5 |

If the result is not satisfactory, check to see if there are any problems with resin flux cored solder, parts and components, in the vicinity of line-150 (the section marked ⑤ in the circuit diagram) and peripheral components.



Composite signal 100% output waveform



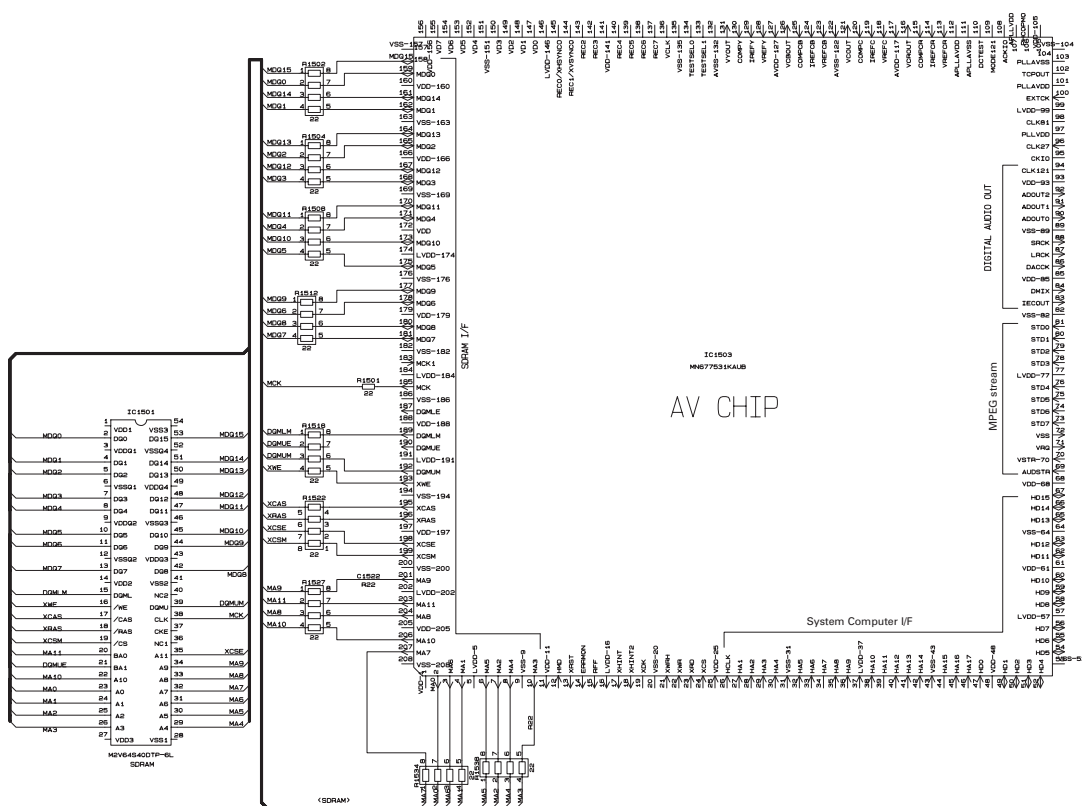
Check 6: Is SDRAM I/F operating normally?

Reproduce DVD-REF-A1 Title 1.

Check the conductivity of both the "Verification location 1" and the "Verification location2."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output "input" of the checked location.

| NO. | Signal name | Verification location 1 | Verification location 2 | Rated value |
|-----|-------------|-------------------------|-------------------------|--------------------|
| 1 | MA0 | IC1501 23pin | IC1503 2pin | $22\Omega \pm 5\%$ |
| 2 | MA1 | IC1501 24pin | IC1503 4pin | $22\Omega \pm 5\%$ |
| 3 | MA2 | IC1501 25pin | IC1503 7pin | $22\Omega \pm 5\%$ |
| 4 | MA3 | IC1501 26pin | IC1503 10pin | $22\Omega \pm 5\%$ |
| 5 | MA4 | IC1501 29pin | IC1503 8pin | $22\Omega \pm 5\%$ |
| 6 | MA5 | IC1501 30pin | IC1503 6pin | $22\Omega \pm 5\%$ |
| 7 | MA6 | IC1501 31pin | IC1503 3pin | $22\Omega \pm 5\%$ |
| 8 | MA7 | IC1501 32pin | IC1503 207pin | $22\Omega \pm 5\%$ |
| 9 | MA8 | IC1501 33pin | IC1503 204pin | $22\Omega \pm 5\%$ |
| 10 | MA9 | IC1501 34pin | IC1503 201pin | $22\Omega \pm 5\%$ |
| 11 | MA10 | IC1501 22pin | IC1503 206pin | $22\Omega \pm 5\%$ |
| 12 | MA11 | IC1501 20pin | IC1503 203pin | $22\Omega \pm 5\%$ |
| 13 | MDQ0 | IC1501 2pin | IC1503 159pin | $22\Omega \pm 5\%$ |
| 14 | MDQ1 | IC1501 4pin | IC1503 162pin | $22\Omega \pm 5\%$ |
| 15 | MDQ2 | IC1501 5pin | IC1503 165pin | $22\Omega \pm 5\%$ |
| 16 | MDQ3 | IC1501 7pin | IC1503 168pin | $22\Omega \pm 5\%$ |
| 17 | MDQ4 | IC1501 8pin | IC1503 171pin | $22\Omega \pm 5\%$ |
| 18 | MDQ5 | IC1501 10pin | IC1503 175pin | $22\Omega \pm 5\%$ |
| 19 | MDQ6 | IC1501 11pin | IC1503 178pin | $22\Omega \pm 5\%$ |
| 20 | MDQ7 | IC1501 13pin | IC1503 181pin | $22\Omega \pm 5\%$ |
| 21 | MDQ8 | IC1501 42pin | IC1503 180pin | $22\Omega \pm 5\%$ |
| 22 | MDQ9 | IC1501 44pin | IC1503 177pin | $22\Omega \pm 5\%$ |
| 23 | MDQ10 | IC1501 45pin | IC1503 173pin | $22\Omega \pm 5\%$ |
| 24 | MDQ11 | IC1501 47pin | IC1503 170pin | $22\Omega \pm 5\%$ |
| 25 | MDQ12 | IC1501 48pin | IC1503 167pin | $22\Omega \pm 5\%$ |
| 26 | MDQ13 | IC1501 50pin | IC1503 164pin | $22\Omega \pm 5\%$ |
| 27 | MDQ14 | IC1501 51pin | IC1503 161pin | $22\Omega \pm 5\%$ |
| 28 | MDQ15 | IC1501 53pin | IC1503 158pin | $22\Omega \pm 5\%$ |
| 29 | MCK | IC1501 38pin | IC1503 185pin | $22\Omega \pm 5\%$ |
| 30 | XWE | IC1501 16pin | IC1503 193pin | $22\Omega \pm 5\%$ |
| 31 | XCAS | IC1501 17pin | IC1503 195pin | $22\Omega \pm 5\%$ |
| 32 | XRAS | IC1501 18pin | IC1503 196pin | $22\Omega \pm 5\%$ |
| 33 | XCSM | IC1501 19pin | IC1503 199pin | $22\Omega \pm 5\%$ |
| 34 | XCSE | IC1501 35pin | IC1503 198pin | $22\Omega \pm 5\%$ |
| 35 | DQMUM | IC1501 39pin | IC1503 192pin | $22\Omega \pm 5\%$ |
| 36 | DQMLM | IC1501 15pin | IC1503 189pin | $22\Omega \pm 5\%$ |
| 37 | DQMUE | IC1501 21pin | IC1503 190pin | $22\Omega \pm 5\%$ |

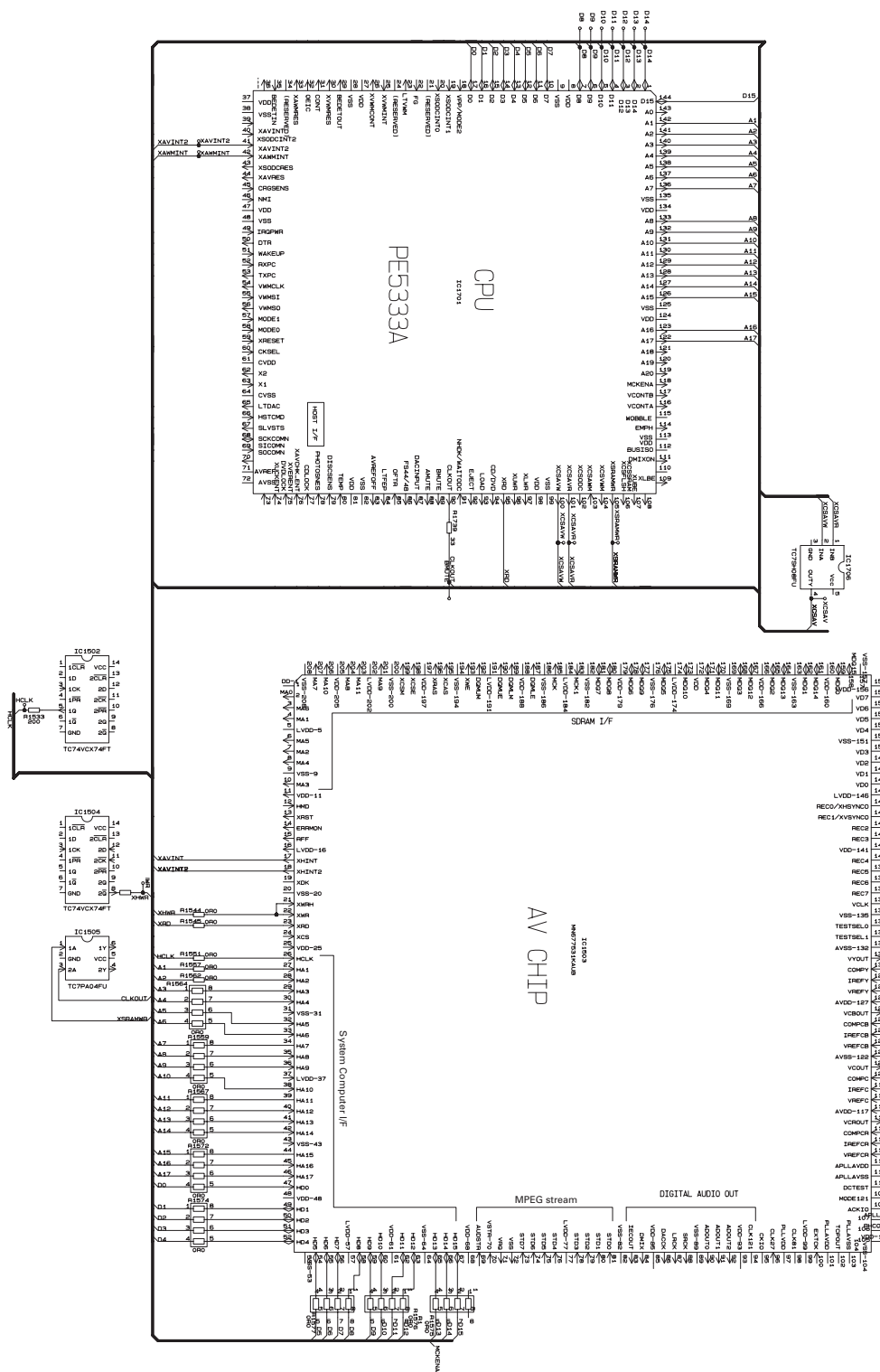


Check 7: Is the microprocessor operating normally?

Check the conductivity of both the "Verification location 1" and the "Verification location2."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output – input" of the checked location.

| NO. | Signal name | Verification location 1 | Verification location 2 | Verification Media | Rated value | Others |
|-----|-------------|-------------------------|-------------------------|--------------------|-------------|--|
| 1 | A1 | IC1701 142pin | IC1503 27pin | ALL | 0Ω | |
| 2 | A2 | IC1701 141pin | IC1503 28pin | ALL | 0Ω | |
| 3 | A3 | IC1701 140pin | IC1503 29pin | ALL | 0Ω | |
| 4 | A4 | IC1701 139pin | IC1503 30pin | ALL | 0Ω | |
| 5 | A5 | IC1701 138pin | IC1503 32pin | ALL | 0Ω | |
| 6 | A6 | IC1701 137pin | IC1503 33pin | ALL | 0Ω | |
| 7 | A7 | IC1701 136pin | IC1503 34pin | ALL | 0Ω | |
| 8 | A8 | IC1701 133pin | IC1503 35pin | ALL | 0Ω | |
| 9 | A9 | IC1701 132pin | IC1503 36pin | ALL | 0Ω | |
| 10 | A10 | IC1701 131pin | IC1503 38pin | ALL | 0Ω | |
| 11 | A11 | IC1701 130pin | IC1503 39pin | ALL | 0Ω | |
| 12 | A12 | IC1701 129pin | IC1503 40pin | ALL | 0Ω | |
| 13 | A13 | IC1701 128pin | IC1503 41pin | ALL | 0Ω | |
| 14 | A14 | IC1701 127pin | IC1503 42pin | ALL | 0Ω | |
| 15 | A15 | IC1701 126pin | IC1503 44pin | ALL | 0Ω | |
| 16 | A16 | IC1701 123pin | IC1503 45pin | ALL | 0Ω | |
| 17 | A17 | IC1701 122pin | IC1503 46pin | ALL | 0Ω | |
| 18 | D0 | IC1701 17pin | IC1503 47pin | ALL | 0Ω | |
| 19 | D1 | IC1701 16pin | IC1503 49pin | ALL | 0Ω | |
| 20 | D2 | IC1701 15pin | IC1503 50pin | ALL | 0Ω | |
| 21 | D3 | IC1701 14pin | IC1503 51pin | ALL | 0Ω | |
| 22 | D4 | IC1701 13pin | IC1503 52pin | ALL | 0Ω | |
| 23 | D5 | IC1701 12pin | IC1503 54pin | ALL | 0Ω | |
| 24 | D6 | IC1701 11pin | IC1503 55pin | ALL | 0Ω | |
| 25 | D7 | IC1701 10pin | IC1503 56pin | ALL | 0Ω | |
| 26 | D8 | IC1701 7pin | IC1503 58pin | ALL | 0Ω | |
| 27 | D9 | IC1701 6pin | IC1503 59pin | ALL | 0Ω | |
| 28 | D10 | IC1701 5pin | IC1503 60pin | ALL | 0Ω | |
| 29 | D11 | IC1701 4pin | IC1503 62pin | ALL | 0Ω | |
| 30 | D12 | IC1701 3pin | IC1503 63pin | ALL | 0Ω | |
| 31 | D13 | IC1701 2pin | IC1503 65pin | ALL | 0Ω | |
| 32 | D14 | IC1701 1pin | IC1503 66pin | ALL | 0Ω | |
| 33 | D15 | IC1701 144pin | IC1503 67pin | ALL | 0Ω | |
| 34 | XCSAVR | IC1701 101pin | IC1706 1pin | ALL | 0Ω | |
| 35 | XCSAVW | IC1701 100pin | IC1706 2pin | ALL | 0Ω | |
| 36 | XCSAV | IC1706 4pin | IC1503 24pin | ALL | 0Ω | |
| 37 | XAVINT | IC1701 42pin | IC1503 17pin | ALL | 0Ω | |
| 38 | XAVINT2 | IC1701 41pin | IC1503 18pin | ALL | 0Ω | |
| 39 | XRD | IC1701 95pin | IC1503 23pin | ALL | 0Ω | |
| 40 | CLKOUT | IC1701 90pin | IC1505 3pin | ALL | 33Ω | Dividing circuitFor verification location 2, include also IC1502 pin-3 |
| 41 | HCLK | IC1502 5pin | IC1503 26pin | ALL | 200Ω ± 5 % | |
| 42 | XSRAMWR | IC1701 105pin | IC1505 1pin | ALL | 0Ω | |
| 43 | XHWR | IC1504 8pin | IC1503 21pin | ALL | 68Ω ± 5 % | |



Note: 1 The encircled number denote measuring point in the circuit diagram.

2 Reference voltage VHALF : 1.65V

A

B

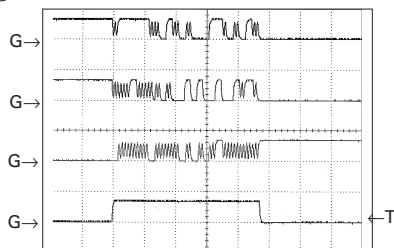
C

D

E

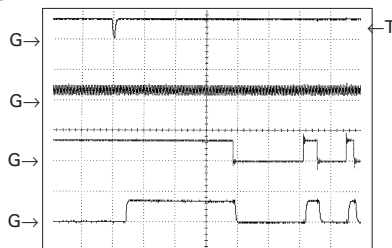
F

⑪ CH1: STD1
⑫ CH2: STD4 5V/div. 2 μ s/div.
⑬ CH3: STD7
⑭ CH4: STENABLE



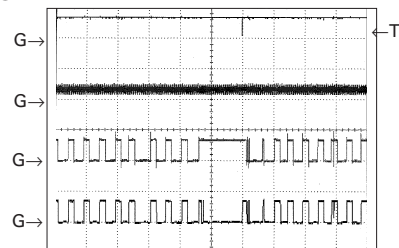
Wave 1

⑮ CH1: AVRTM
⑯ CH2: STCLK 5V/div. 2 μ s/div.
⑰ CH3: STVALID
⑭ CH4: STENABLE



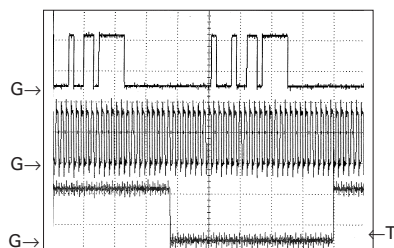
Wave 2(1)

⑮ CH1: AVRTM
⑯ CH2: STCLK 5V/div. 50 μ s/div.
⑰ CH3: STVALID
⑭ CH4: STENABLE



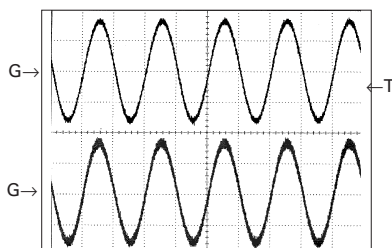
Wave 2(2)

⑱ CH1: AOUT0
⑲ CH2: SRCKAV 2V/div. 2 μ s/div.
⑳ CH3: LRCKAV



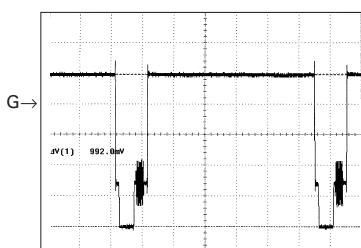
Wave 3

㉑ CH1: LO 1V/div. 500 μ s/div.
㉒ CH2: RO



Wave 4

㉓ CH1: COMPO 200mV/div. 10 μ s/div.
[White 100% output]



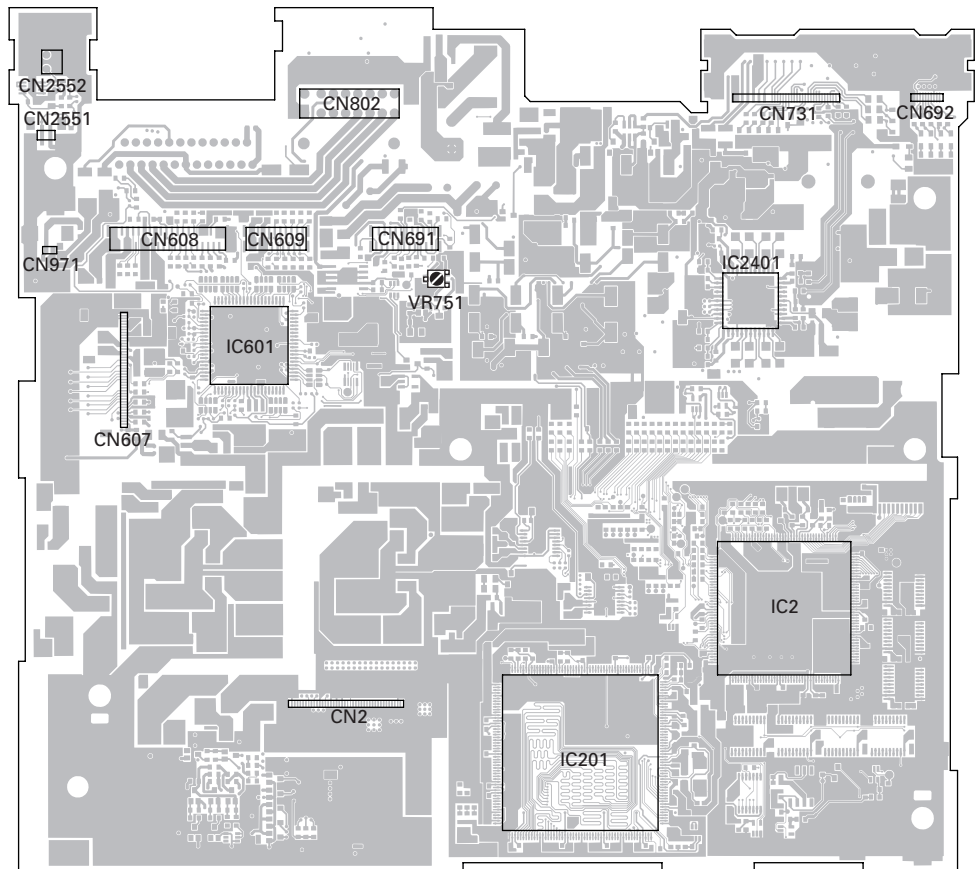
Wave 5

6.3 CC UNIT ADJUSTMENT

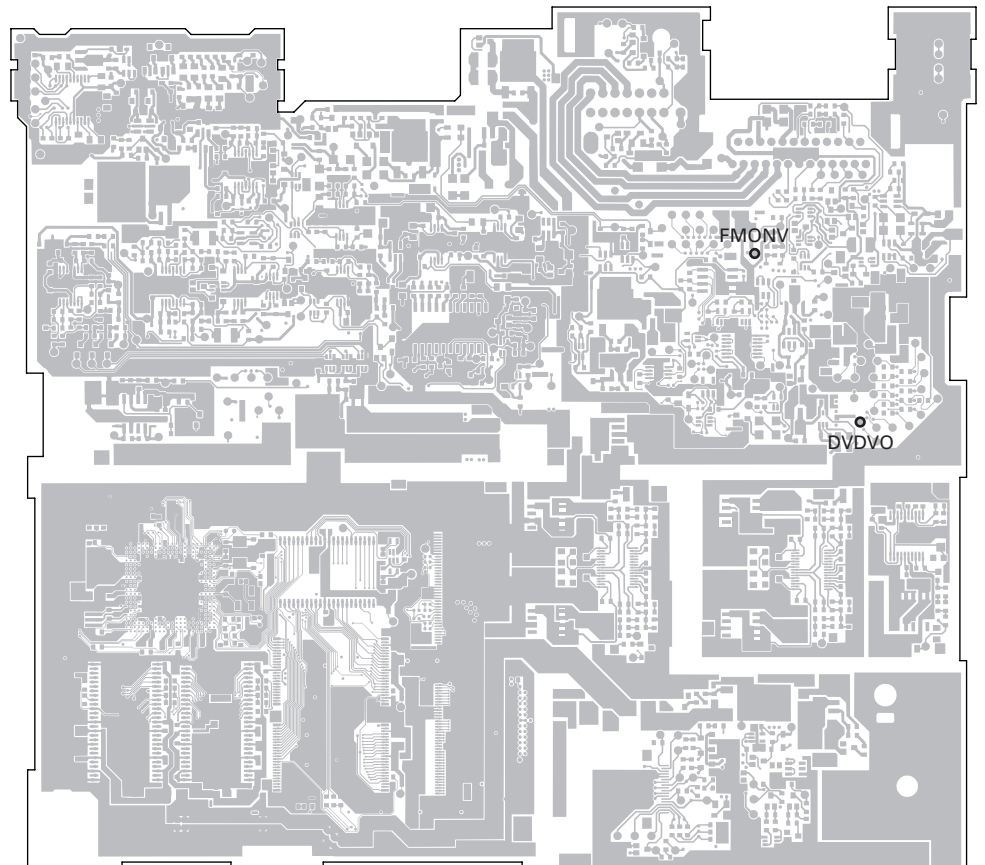


● Adjustment point

CC UNIT(SIDE A)



CC UNIT(SIDE B)



A


B

C

D

E

F

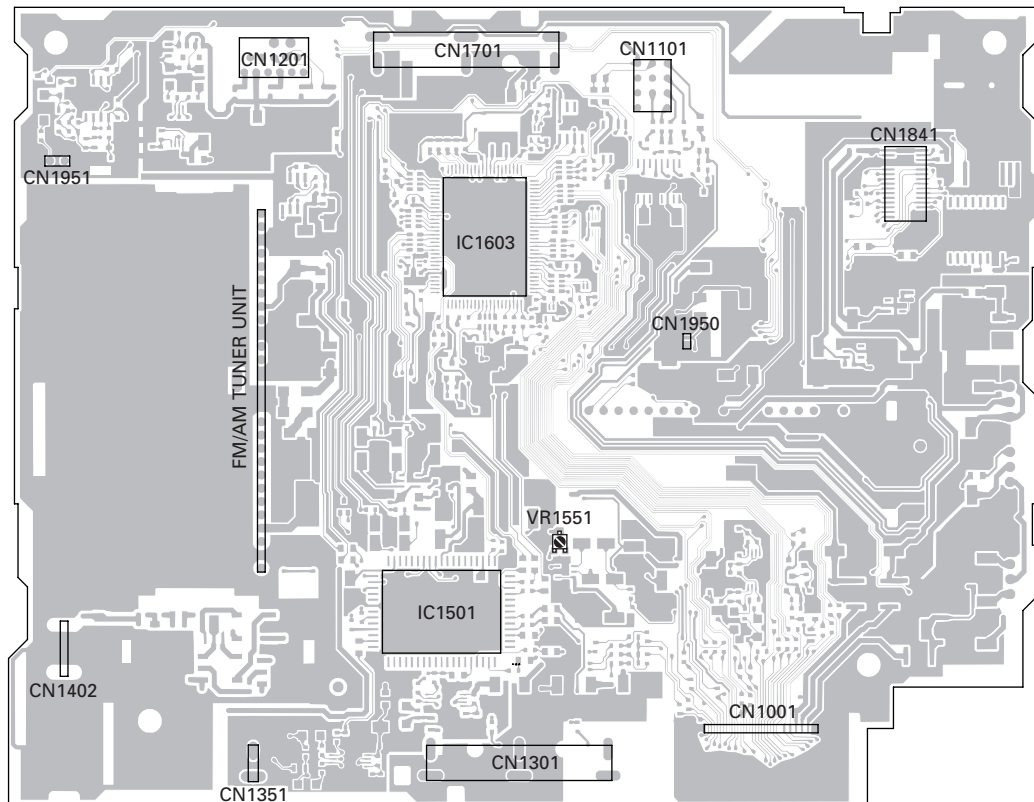
| Step | Adjustment item | Mode | Input (input test pin,specs, other conditions) | Output (measuring point, waveform) | Measuring instruments | Specs | Adjusting point |
|------|---------------------|------|---|---|--------------------------|--|--------------------|
| 1 | Main video level | VTR | Input test pin : DVDVO Signal : 100IRE(white 100%) Level : 1.0Vp-p(via 75Ω) | Measuring point : FMONV  | Oscilloscope | 1.50 ± 0.05Vp-p Measure between the sync tip and 100IRE (top level). The 12kΩ terminal on the measuring instrument. | VR751 |

6.4 MOTHER PCB ADJUSTMENT

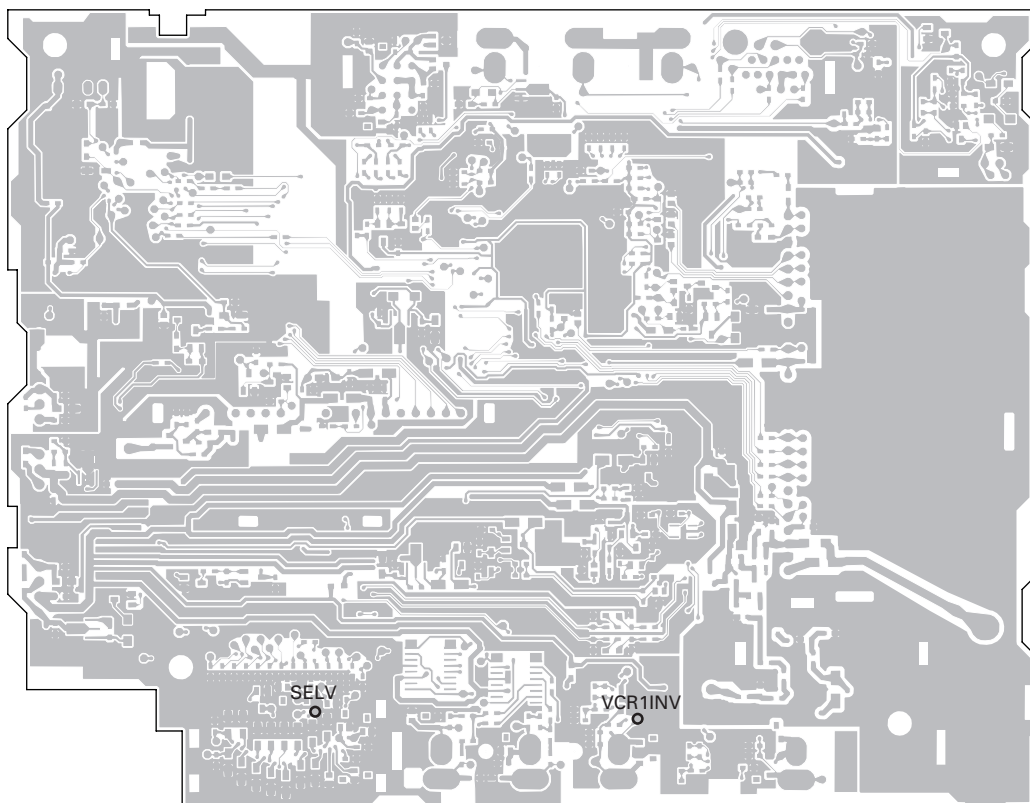


● Adjustment point


MOTHER PCB(SIDE A)



MOTHER PCB(SIDE B)



A B C D E F

| Step | Adjustment item | Mode | Input (input test pin,specs, other conditions) | Output (measuring point, waveform) | Measuring instruments | Specs | Adjusting point |
|------|-----------------------|------|---|--|--------------------------|---|--------------------|
| 1 | Composite video level | VTR | Input test pin : VCR1INV Signal : 100IRE(white 100%) Level : 1.0Vp-p(via 75Ω) | Measuring point : SELV  | Oscilloscope | 1.00 ± 0.05Vp-p Measure between the sync tip and 100IRE (top level). Measuring conditions: Select the 75Ω terminal on the measuring instrument. | VR1551 |

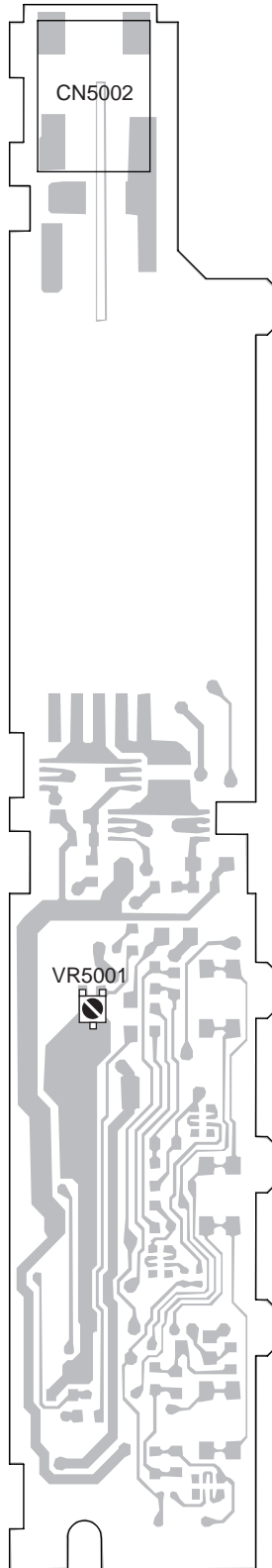
(1) The Video level (Vlevel) is out of spec.
When the Vlevel is more than 1.05Vp-p, the images become whitish.
When the Vlevel is less than 0.95Vp-p, the images become blackish.

6.5 INVERTER PCB ADJUSTMENT

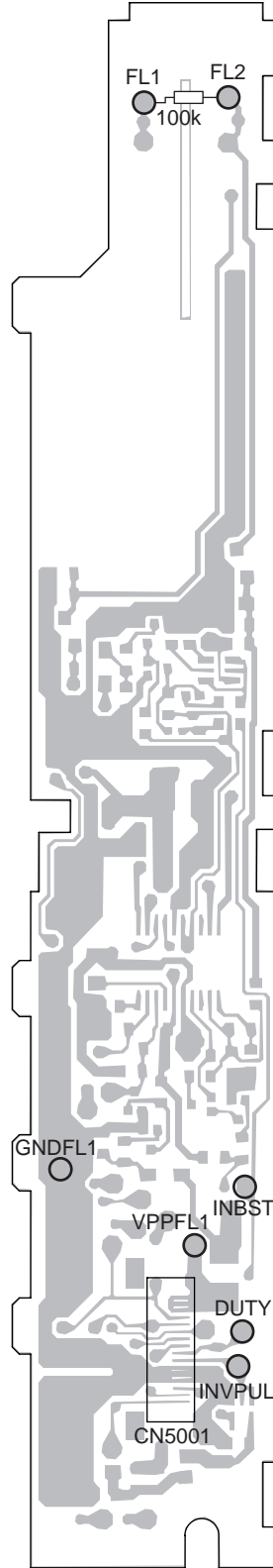


● Adjustment point

INVERTER PCB(SIDE A)



INVERTER PCB(SIDE B)



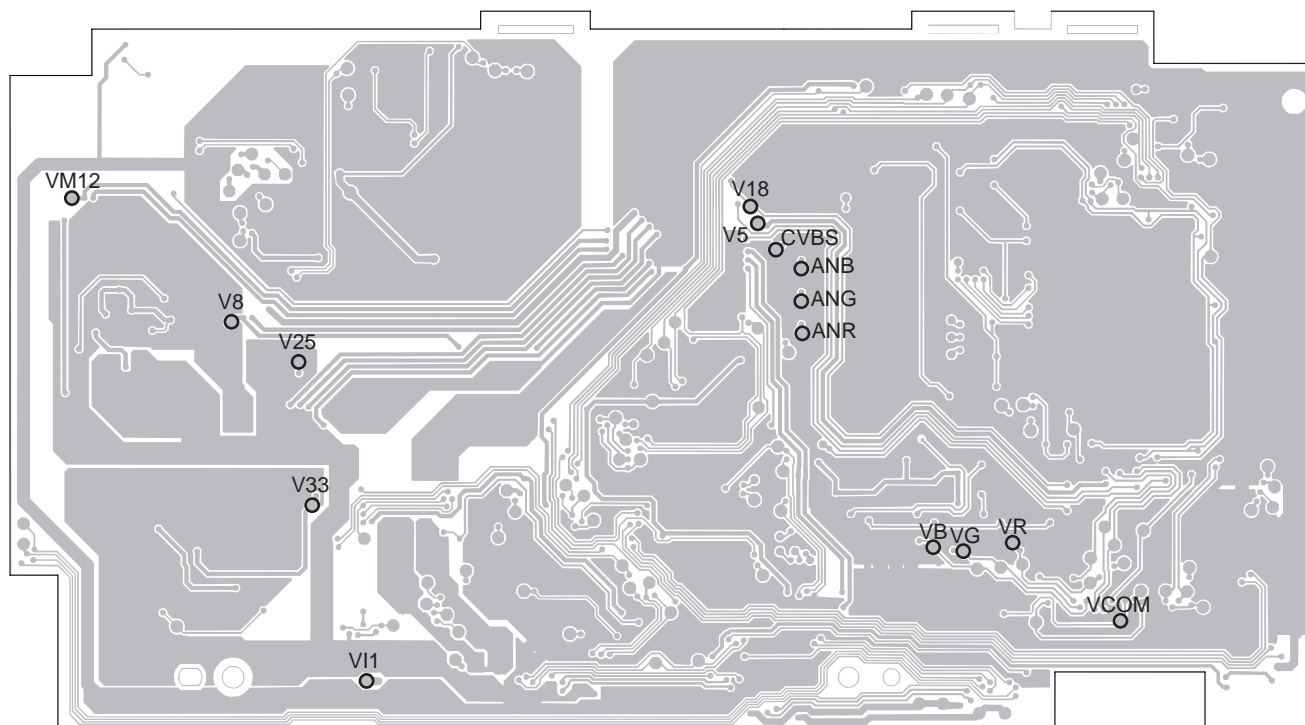
| No | Adjustment item | Input signal | Measuring point | Adjusting point | Measuring method and specs. | Remarks |
|----|----------------------------|---|-----------------|-----------------|-----------------------------|--|
| 1 | BACK LIGHT DRIVE FREQUENCY | Apply 14.4V \pm 0.2V to TP VPPFL1 TP GNDFL1, TP INVPUL, TP DUTY and TP INBST : GND | TP:FL1,FL2 | VR 5001 | 48.0 \pm 0.1kHz | 100k ohms is connected between TP FL1 and TP FL2. It acts as the monitor of the waveform after potential. Don't acts as the monitor of the TP FL2 directly. (there is a possibility that a measuring instrument may be destroyed, for high voltage.) Out of spec., when frequency change of following may become impossible. |
| 2 | FREQUENCY CHANGE CHECK | Apply wave of 98.0 \pm 1kHz to TP INVPUL 5V 10 \pm 2% 0V | TP:FL1,FL2 | | 49.0 \pm 0.5kHz | It checks that the waveform after potential is set to 49 kHz |
| 3 | FREQUENCY CHANGE CHECK | Apply wave of 104.0 \pm 1kHz to TP INVPUL 5V 10 \pm 2% 0V | TP:FL1,FL2 | | 52.0 \pm 0.5kHz | It checks that the waveform after potential is set to 52 kHz |

6.6 MONITOR PCB ADJUSTMENT



● Adjustment point

MONITOR PCB(SIDE B)



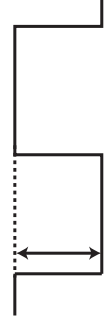
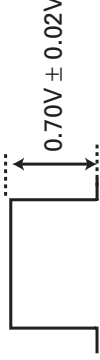

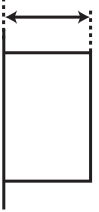

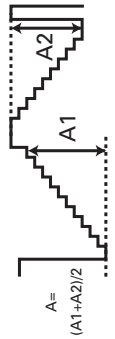
Notes:
When the power supply for TC90A64AF-P (IC4001) is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

| No | Adjustment item | Input | Measuring point | Adjusting point | Measuring method and specs. | Remarks |
|----|---------------------------------|------------------------|-----------------|-----------------|-----------------------------|---------|
| 1 | 3.3V power supply verification | Apply 14.4V to TP V11. | (TP V33) | — | V33 = 3.3V ± 0.3V | |
| 2 | 2.5V power supply verification | Apply 14.4V to TP V11. | (TP V25) | — | V25 = 2.5V ± 0.2V | |
| 3 | 5V power supply verification | Apply 14.4V to TP V11. | (TP V5) | — | V5 = 5.0V ± 0.3V | |
| 4 | 8V power supply verification | Apply 14.4V to TP V11. | (TP V8) | — | V8 = 8.0V ± 0.6V | |
| 5 | 18.5V power supply verification | Apply 14.4V to TP V11. | (TP V18) | — | V18 = 18.5V ± 0.8V | |
| 6 | -12V power supply verification | Apply 14.4V to TP V11. | (TP VM12) | — | VM12 = -12.0V ± 0.6V | |

Notes:

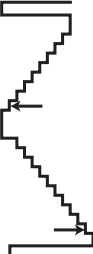
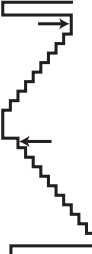
When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

2) In the following table, SA**h is a sub-address of TC90A64AF-P.

| No | Adjustment item | Input | Measuring point | Adjusting point | Measuring method and specs. | Remarks |
|----|---|--|-----------------|-----------------|--|---|
| 7 | Vcom amp output Voltage waveform Verification | Any input signal | TP VCOM | — |  | |
| 8 | Input waveform verification (RGB) | Apply a white 100% signal to TP AVR,ANG, ANB. | TP ANR,ANG, ANB | — |  | The signal generator should be used via 75 ohms. (specs in desinging : 75.0 ± 0.2ohms) |
| 9 | Input waveform verification (composite) | Apply a white 100% signal to TP CVBS. | TP CVBS | — |  | The signal generator should be used via 75 ohms. |
| 10 | RGB amp output voltage waveform verification | Apply a black signal to TP ANR,ANG,ANB. (Video level:0%) | TP VG | — |  | The input signal has no setup. (Apply a black signal to TP CVBS) |
| 11 | Gamma 0 Verification | Apply a 10-step signal to TP ANR,ANG,ANB. | TP VG | — |  The first-step A = 0.50V ± 0.10V A = (A1+A2)/2 | The input 10-step signal has no setup. |
| 12 | Gamma 2 verification | Apply a 10-step signal to TP ANR,ANG,ANB. | TP VG | — |  The 10-step A = 3.10V ± 0.15V A = (A1+A2)/2 | The input 10-step signal has no setup. If the measured value is out of specs, change the setting of SA24h D11 - 8 (γ2 inflection point: GAMMA2 in the line adjustment 1 mode) (Register setting specs: 4 ± 1) |

Notes:

- 1) When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.
- 2) In the following table, SA**h is a sub-address of TC90A64AF-P.

| No | Adjustment item | Input | Measuring point | Adjusting point | Measuring method and specs. | Remarks |
|----|----------------------|--|-----------------|------------------------------------|---|--|
| 13 | B SUB BRIGHT | Apply a 10-step signal to TP ANR,ANG, ANB. | TP VG and VB | Register setting of SA39h D11 - 8 | Adjust the first step levels of the G waveform and the B waveform.  | Register setting specs : 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI B can be used as the adjusting point. |
| 14 | B SUB CONTRAST | Apply a 10-step signal to TP ANR,ANG, ANB. | TP VG and VB | Register setting of SA26h D7 - 1 | Adjust the 10th step levels of the G waveform and the B waveform.  | Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON B can be used as the adjusting point. |
| 15 | R SUB BRIGHT | Apply a 10-step signal to TP ANR,ANG, ANB. | TP VG and VR | Register setting of SA39h D15 - 12 | Adjust the first step levels of the G wave form and the R waveform.(Measuring point is the same as that of No.13.) | Register setting specs: 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI R can be used as the adjusting point. |
| 16 | R SUB CONTRAST | Apply a 10-step signal to TP ANR,ANG, ANB. | TP VG and VR | Register setting of SA26h D15 - 9 | Adjust the 10th step levels of the G waveform and the R waveform.(Measuring point is the same as that of No.14.) | Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON R can be used as the adjusting point. |
| 17 | Horizon dot position | Any input signal | — | Register setting of SA2Ah D3 - 0 | 5(0101) | After being written in,the setting value of EEP-ROM is checked. 2 mode,DOT CLK can be used as the adjusting point. |
| 18 | Aging | Any input signal | — | — | Keep the unit in the operation mode for 30 minutes or longer. | Block light lighting. An animation is displayed. |
| 19 | Flicker | Input a signal for alternate white and black lines to TP ANR, TP ANG and TP ANB. | Screen | Register setting of SA22h D15 - 8 | Adjust so that the flickers become minimum in all | If it input a signal for alternate white into TP CVBS, it is possible. (However, adjustment by RGB has priority.) The luminance level of the input signal: 50%. In the flicker adjustment mode, COM DC can be used as the adjusting point. |

Flicker adjustment has been deviated The images flicker.

●EEPROM setting mode

*) Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 and GGF1463 at the time of monitor adjustment. As you will find lands for 14 pins with 0.8mm pitch at the left top part of the monitor board, directly solder a flexible PCB of GGD1323 for adjustment. As GGD1322 is not used, be careful not to short the terminal.

[Operations]

To enter the setting mode, while keeping the EPRTTEST terminal at "Low", turn reset the monitor micro computer. While pressing the [REAR] and [EQ] Kyes at the same time,reset.

Flicker adjustment mode

Line adjustment 1 mode

Line adjustment 2 mode

Dimmer parameter setting mode

[↑ ↓] button: Used to select a desired adjustment item in each mode

[←→] button: Used to adjust the selected item

Notes:

1) The setting values are written in the EEPROM and then the read-out data is displayed on the screen.

WRITE and READ operations are processed by the block data of 16 bits.

The total bits for the settings depend on adjusting items.

2) For CS (Check Sum) items, when the settings are changed, the CS value is written in 8 bits by applying the exclusive OR (XOR). The CS value is first written in the EEPROM and then the read-out data is displayed.

If the written data is different from the read-out data, the letter color for the read-out data is changed.

● Memory items and addresses on the EEPROM(S-93C46BR0I-J8T1)

| EEPROM address | Bit15 | Bit14 | Bit13 | Bit12 | Bit11 | Bit10 | Bit9 | Bit8 | Bit7 | Bit6 | Bit5 | Bit4 | Bit3 | Bit2 | Bit1 | Bit0 | |
|----------------|--|-------|---|-------|---|-------|------------|------|---|------|------|------|--|------|---|------|------------|
| 00H | Dimmer external light threshold (high) | | | | | | | | Dimmer external light threshold (low) | | | | | | | | |
| 01H | Backlight output (upper limit) | | | | | | | | Backlight output (lower limit) | | | | | | | | |
| 02H | Common reverse output center (COM DC) PIP SA:22h[B15-8] | | | | | | | | Common reserve output amplitude (COM AMP) PIP SA:22h[B7-2] | | | | | | Don't care | | |
| 03H | Don't care | | Output clamp DC (RGB BIAS) PIP SA:23h[B13-8] | | | | | | Don't care | | | | γ 0 inflection point (GAMMA 0) PIP SA:23h[B3-0] | | | | |
| 04H | γ 3 inflection point (GAMMA 3) PIP SA:24h[B15-12] | | | | γ 2 inflection point (GAMMA 2) PIP SA:24h[B11-8] | | | | γ 1 inflection point (GAMMA 1) PIP SA:24h[B7-3] | | | | Don't care | | | | |
| 05H | Output sub contrast R (SUB CON R) PIP SA:26h[B15-9] | | | | | | Don't care | | Output sub contrast B (SUB CON B) PIP SA:26h[B7-1] | | | | | | Don't care | | |
| 06H | Sub brightness R after γ circuit (SUB BRI R) PIP SA:39h[B15-12] | | | | Sub brightness B after g circuit (SUB BRI B) PIP SA:39h[B11-8] | | | | Don't care | | | | | | | | |
| 07H | Don't care | | | | | | | | Don't care | | | | Clock phase adjustment (DOT CLK) PIP SA:2Ah[B3-0] | | | | |
| 08H | Don't care | | | | | | | | Don't care | | | | | | Sharpness (SHARPNESS) PIP SA:05h[B2-1] | | Don't care |
| 09H-1BH | Don't care | | | | | | | | | | | | | | | | |
| 1CH | Check sum address (00h-1bh) | | | | | | | | | | | | | | | | |
| 1DH | Don't care | | | | | | | | Common reverse output center(Reference) | | | | | | | | |
| 1EH | Don't care | | | | | | | | | | | | Clock phase adjustment initial value | | | | |
| 1FH | Don't care | | | | | | | | | | | | | | | | |
| 20H | External light of dimmer adjustment(H) | | | | | | | | Back light of dimmer adjustment(H) | | | | | | | | |
| 21H | External light of dimmer adjustment(M) | | | | | | | | Back light of dimmer adjustment(M) | | | | | | | | |
| 22H | External light of dimmer adjustment(L) | | | | | | | | Back light of dimmer adjustment(L) | | | | | | | | |
| 23H-3FH | Don't care | | | | | | | | | | | | | | | | |

EEPROM initial value

| Item | Meaning | initial value(hex) | initial value(DEC) |
|-----------|---|--------------------|--------------------|
| COM_DC | Common reverse output center | 8C | 140 |
| COM_AMP | Common reverse output amplitude | 1E | 30 |
| RGB_BIAS | Out clamp DC | 00 | 00 |
| GAMMA0 | γ 0 | 02 | 02 |
| GAMMA3 | γ 3 | 04 | 04 |
| GAMMA2 | γ 2 | 04 | 04 |
| GAMMA1 | γ 1 | 13 | 19 |
| SUB_CON_R | Output sub contrast R | 40 | 64 |
| SUB_CON_B | Output sub contrast B | 40 | 64 |
| SUB_BRI_R | Sub brightness R after γ circuit | 08 | 08 |
| SUB_BRI_B | Sub brightness B after γ circuit | 08 | 08 |
| DOT_CLK | Clock phase adjustment | 05 | 05 |
| SHARPNESS | Sharpness | 03 | 03 |
| BL_MAX | Back light output (Max.) | C4 | 196 |
| BL_MIN | Back light output (Min.) | 5B | 91 |
| REF_HIGH | Dimmer (H) | C0 | 192 |
| REF_LOW | Dimmer (L) | 60 | 96 |
| LUM_HIGH | External light (H) | E2 | 226 |
| LUM_MID | External light (M) | 87 | 135 |
| LUM_LOW | External light (L) | 52 | 82 |
| BL_HIGH | Back light (H) | C4 | 196 |
| BL_MID | Back light (M) | C4 | 196 |
| BL_LOW | Back light (L) | 68 | 104 |

[Displays in each mode]

In the following figures, the letters and numbers surrounded by a large square are for OSD examples.

On the screen, the adjustment names and the settings (or written data) are listed.

The settings (or written data) will change when some adjustments are made in each mode.

* The following examples show the maximum values.

(1) Flicker adjustment mode

| Adjustment item | Adjustment range | Adjustable name | Settings or written data (DEC) | | |
|------------------------------|------------------|-----------------|--------------------------------|--|--|
| Common reverse output center | [0 - 255] | COM DC | 255 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

(2) Line adjustment 1 mode

| Adjustment item | Adjustment range | Adjustable name | Settings or written data (DEC) | | |
|---------------------------------|------------------|-----------------|--------------------------------|----|-------|
| Bright (SA22: B7-2) | [0 - 63] | BRIGHT | 63 | | LINE1 |
| Contrast (SA25: B7-1) | [0 - 127] | CONTRAST | 127 | | |
| Common reverse output center | [0-255] | COM DC | 255 | | |
| Common reverse output amplitude | [0-63] | COM AMP | 63 | | |
| Output clamp DC | [0-63] | RGB BIAS | 63 | | |
| Y0 inflection point | [0-15] | GAMMA0 | 15 | | |
| Y3 inflection point | [0-15] | GAMMA3 | 15 | | |
| Y2 inflection point | [0-15] | GAMMA2 | 15 | | |
| Y1 inflection point | [0-31] | GAMMA1 | 31 | | |
| | | | | CS | FF |

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) BRIGHT and COM AMP data

The BRIGHT and COM AMP adjustments are made by using the same 2-screen IC register(SA22h B7-2: common reverse output amplitude).

Therefore, adjusting one of the data will change the other one.

(3) Line adjustment 2 mode

| Adjustment item | Adjustment range | Adjustable name | Settings or written data (DEC) | | |
|---|------------------|-----------------|--------------------------------|----|-------|
| Bright (SA22: B7-2) | [0 - 63] | BRIGHT | 63 | | LINE2 |
| Contrast (SA25: B7-1) | [0 - 127] | CONTRAST | 127 | | |
| Output sub contrast R | [0 - 127] | SUB CON R | 127 | | |
| Output sub contrast B | [0 - 127] | SUB CON B | 127 | | |
| Sub brightness R after γ circuit | [0 - 15] | SUB BRI R | 15 | | |
| Sub brightness B after γ circuit | [0 - 15] | SUB BRI B | 15 | | |
| Clock phase adjustment | [0 - 15] | DOT CLK | 15 | | |
| Sharpness | [0 - 3] | SHARPNESS | 3 | | |
| | | | | CS | FF |

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) SUB BRI R and SUB BRI B data

The displayed value or EEPROM written data is different from the setting value for the 2-screen IC register (IC4001 : TC90A64AF-P).

(Before displayed on the screen, the setting value is converted via some software.)

| Displayed value (adjusting value) (DEC) | EEPROM written value. (DEC) | 2-screen IC register setting (BIN) | |
|---|-----------------------------|------------------------------------|-------|
| 15 | 15 | 0111 | (MAX) |
| 14 | 14 | 0110 | |
| . | . | . | |
| . | . | . | |
| 9 | 9 | 0001 | |
| 8 | 8 | 0000 | (TIP) |
| 7 | 7 | 1111 | |
| . | . | . | |
| . | . | . | |
| 1 | 1 | 1001 | |
| 0 | 0 | 1000 | (MIN) |

(4) Dimmer parameter setting mode

| Adjustment item | Adjustment range | Adjustable name | Settings or written data (DEC) | | |
|-------------------------------|------------------|-----------------|--------------------------------|----|--------|
| Backlight output (MAX) | [0 - 255] | BL MAX | FF | | DIMMER |
| Backlight output(MIN) | [0 - 255] | BL MIN | FF | | |
| Dimmer threshold (high) | [0 - 255] | REF H | FF | | |
| Dimmer threshold (low) | [0 - 255] | REF L | FF | | |
| External light point (high) | [0 - 255] | LUM H | FF | | |
| External light point (middle) | [0 - 255] | LUM M | FF | | |
| External light point (low) | [0 - 255] | LUM L | FF | | |
| Backlight point (high) | [0 - 255] | BL H | FF | | |
| Backlight point (middle) | [0 - 255] | BL M | FF | | |
| Backlight point (low) | [0 - 255] | BL L | FF | CS | FF |

Note:

The dimmer point data is memorized in the EEPROM, but not treated as a CS item.
It's because the settings are adjustable by the user.

● Dot Clock Adjustment Mode

[Operations]

- [Dot Clock adjustment mode] starting procedure
Reset start while pressing the [ENT] and [ANGLE+] Keys together.
- [Dot Clock adjustment mode] cancellation Monitor's microcomputer OFF.
- The operation after this should use Navigation's remote controller.
- [↑↑] button : Used to select a desired adjustment item in each mode.
- [— —] button : Used to adjust the selected item.

[EEPROM : S-93C46BR0I-J8T1]

The setting values are written in the EEPROM and then the read-out data is displayed on the screen.
WRITE and READ operations are processed by the block data of 16 bits.

[Display]

In the following figures,a large square are for OSD examples.

Dot Clock adjustment mode

| Adjustment item | Adjustment range | Adjustable name | Settings or written data (DEC) | | |
|---|------------------|-----------------|--------------------------------|---|--|
| Clock phase adjustment | [0 - 15] | DOT CLK | 15 | | |
| Clock phase adjustment (initial) | [0 - 15] | [FACTORY | 8 |] | |
| | | | | | |
| Common reverse output center | [0-255] | COM DC | 255 | | |
| Common reverse output center adjustment (initial) | [0-255] | [FACTORY | 140 |] | |
| | | | | | |
| | | | | | |
| | | | | | |

* CS(Check Sum)display is not performed.

● To operate the Monitor Assy only

Setting of the TP1(EPRTTEST), TP2(TESTAGE) and TP3(TOUCHTS) in single operation mode is as follows.

| TP2 | TP3 | TP1 | Contents |
|-----|-----|-----|------------------------------------|
| L | H | H | For aging (See p.221.) |
| L | - | L | EEPROM setting mode (See p.222.) |
| L | L | H | Touch panel test mode (See p.231.) |

H : Not connect

L : Connect to the ground

Contents of single operation mode

[For aging]

MVIPW : ON
MFLPW : ON
DIMMER : 5V (FFH)
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

[EEPROM setting mode]

MVIPW : ON
MFLPW : ON
DIMMER : The calculated value from coordinates of EEPROM data
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

[Touch panel test mode]

MVIPW : ON
MFLPW : ON
DIMMER : The calculated value from coordinates of EEPROM data
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

6.7 TEST MODE

● NAVIGATION TEST MODE

1. How to start the test mode

1. When +Battery and ACC are ON, push RESET and EJECT buttons simultaneously.
2. Release RESET button only.
3. When “password entry screen” is displayed, release EJECT button.
4. Enter the password.
5. When the password has been entered, press [ENTER] key.
6. If the correct password has been entered, the test mode menu will be displayed.

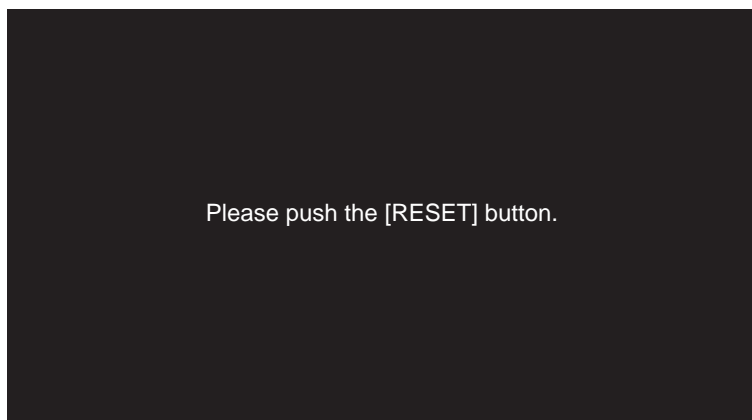
* The password entry screen, as the one used in the previous model, is no longer displayed.

<< Password for the service >>

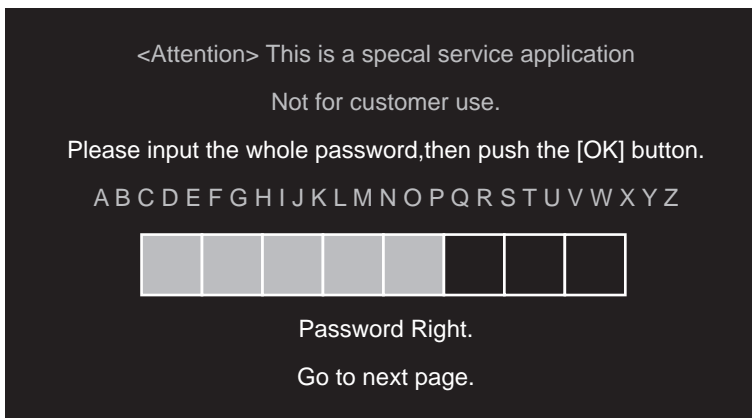
The password is [↑(up)] → [↑(up)] → [↓(down)] → [↓(down)] → [ENTER].

If 8 digits or more are entered and [ENTER] key is pressed, it will be treated as a password error.

- Password entry screen



- Password OK : After 2 seconds or so, the screen will automatically move on to the menu screen.



- Password NG : Nothing will be displayed, and reboot action will be taken.

2. Test mode menu

TESTMODE MENU [SERVICE_MENU(THCHNICAL)]

1. Remocon touch panel test
2. Version check
3. Error log
4. Format FLASH drive
5. Erase APL-file in FLASH
6. Clear backup memory
7. GPS backup data clear
8. GYRO SENSOR INFO data clear
9. Port status information

==> next page

SYSTEM Ver. : [BOOT] 0.65 [OS] 0.65

| No. | Inspection item | Outline of inspection | Content if inspection |
|-----|-----------------------------|--|---|
| 1 | Remocon touch panel test | Remote controller touch panel inspection | Calibration setting and remote controller inspection are performed. |
| 2 | Version check | Version information check | Display of various version information. (system software, GPS, system microprocessor, microprocessor for mechanism control, microprocessor for timer). The screen will return to "menu" by BACK key. |
| 3 | ERROR log | Error history entry | History of system software errors stored in SRAM is displayed. Maximum 8 events from the error last occurred can be displayed. The screen will return to "menu" by BACK key. |
| 4 | Format FLASH drive | FLASH format | FLASH domain used by the system soft is initialized. When the job is done, the screen will return to "menu". |
| 5 | Erase APL-file in FLASH | Application file inside FLASH is clear | Application file inside FLASH is clear. *(Except voice data and SRAM backup variable) When the job is done, the screen will return to "menu". |
| 6 | Clear backup memory | Back up variables initialization | SRAM domain used by the system software is initialized. When the job is done, reboot action will be taken. |
| 7 | GPS backup data clear | GPS back up data clear | SRAM domain used by GPS is initialized. When the job is done, the screen will return to "menu". |
| 8 | GYRO SENSOR INFO data clear | Learned data inside gyro sensor is clear | Learned data inside gyro sensor is cleared. When the job is done, the screen will return to "menu". |
| 9 | Port status information | Port status display | Port status is displayed. (reverse, parking, pulse, SDRAM capacity.) |

TESTMODE MENU [SERVICE_MENU(THCHNICAL)]

1. Change to display error [Message]
2. Start within debug shell [On]
3. Program loading [Version up]
4. GPS assessment
5. File maintenance
6. Program forced write

<== back page ==> next page
SYSTEM Ver. : [BOOT] 0.65 [OS] 0.65

| No. | Inspection item | Outline of inspection | Content if inspection | | |
|-----|--------------------------|--|--|---------------------|---|
| 1 | Change to display error | Switching of error information display | Display setting for error cases. (for debugging) Message/Information (error information) selectable. | | |
| 2 | Start within debug shell | Switching of debug shell start | Setting for debug shell start. (for debugging) Off (no initial start)/On (initial start) selectable. | | |
| 3 | Program loading | Switching of program loading | Recognition method for boot up program write is changed. | | |
| | | | Disc version (default) | System program | Write when the version No. in the disc is higher. |
| | | | | System data | Write when the version No. in the disc is higher. |
| | | | | GPS program | Write when the version No. in the disc is higher. |
| | | | | Application program | Write when the version information is different from the one in disc. |
| | | | Version upgrade (for debug) | System program | Write when the version No. in disc or card is higher. |
| | | | | System data | Write when the version No. in disc or card is higher. |
| | | | | GPS program | Write when the version No. in disc or card is higher. |
| | | | | Application program | Write when the version No. in disc or card is higher. |
| 4 | GPS assessment | GPS assessment system start | GPS assessment system can be used. The system will return to "menu" by BACK key. | | |
| 5 | File maintenance | File maintenance function | File maintenance operations are made. Formatting of SRAM drive and PC card (ATA Flash Card) are made. SRAM data is retrieved and copied to PC card. Data retrieved from SRAM is copied to SRAM from PC card. | | |
| 6 | Program forced write | Program forced write | Rewriting of SYS (system), GPS (GPS) and APL (application) software are done by force. (Joystick is used) The system will return to "menu" by BACK key. | | |

TESTMODE MENU [SERVICE_MENU(THCHNICAL)]

1. SRAM / SDRAM test
2. SENSOR test
3. CD-ROM reading test
4. RGB test
5. MS3 check
6. Region code

<== back page ==> next page
SYSTEM Ver. : [BOOT] 0.65 [OS] 0.65

| No. | Inspection item | Outline of inspection | Content if inspection |
|-----|---------------------|-----------------------|---|
| 1 | SRAM/SDRAM test | Memory inspection | SRAM : Device inspection and bus inspection are performed against all SRAM domains. Data will be protected. (applicable to both 32M and 64M) SDRAM : Device inspection and bus inspection are performed against all SDRAM domains. Data will be protected for both BIOS domain and USER domain. The function for SDRAM all domain inspection will activate by the built-in instruction RAM. |
| 2 | SENSOR test | Sensor inspection | G sensor, gyro, power supply voltage and installation condition are displayed. The system will return to "menu" by BACK key. |
| 3 | CD-ROM reading test | CD-ROM read test | Inspection for reading by CD-ROM drive is performed. |
| 4 | RGB test | Image RGB inspection | RGB inspection (Upper half, 8 colors. Black/blue/red/pink/green/light blue/yellow/white display. Lower half, 3 colors. Red/green/blue.) → red (FULL)→green (FULL)→blue (FULL)→ Switching can be made by [←] and [→] keys. The system will return to "menu" by BACK key. |
| 5 | MS3 check | MS3 check [V+R] | MS3 mechanism test mode inspection. |
| 6 | Region code | Region code display | Region code display. |

3. How to select test mode menu

Select a desired menu by [↑] and [↓] keys, and execute by pressing [ENTER] key.
Pages can be changed by [←] and [→] keys.

4. Version information

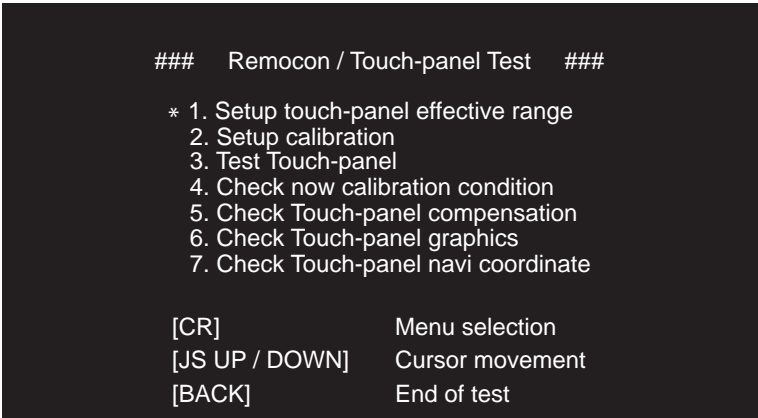
Version No. for BOOT section = X.XX System software does not exist in SDRAM.
Version No. for BOOT section = X.XX Version No. for SDRAM = Y.YY

● Remocon touch panel test

- How to operate the touch panel test mode is described below.
- First, “1. Setup touch-panel effective range” in the touch panel test menu is made.
- Next, “3. Test Touch-panel”, and if the result is OK, then EXIT the screen.
- If the result is NG, conduct “2. Setup calibration”, and conduct “3. Test Touch-panel” once again. If the result is OK, then EXIT the screen.
- Furthermore, details of the misalignment can be verified by the “5. Check Touch-panel compensation”.

*) When inspecting the touch panel, use something thin with a round tip such as the touch pen. Furthermore, do not apply excessive force to the touch panel.

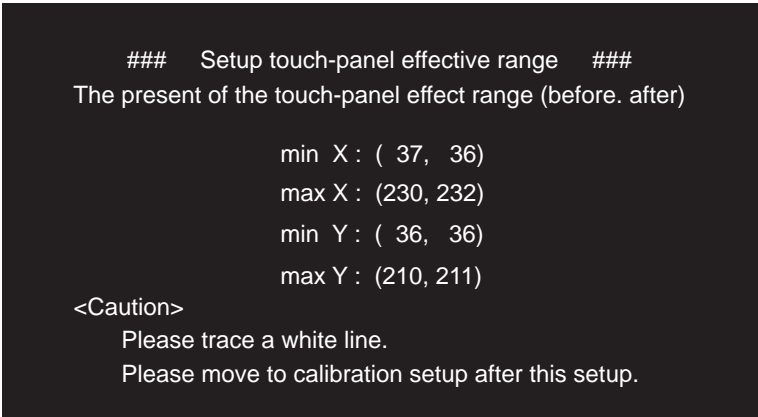
Main Menu



“*” mark shown on the left side of menu item “1” indicates that the setting has been completed. The setting items where “*” is actually indicated will be “1. Setup ~” and “2. Setup ~” only.

- [CR] Enter
- [UP/DOWN] Selection of the inspection item
- [BACK] Return (to the test mode menu)

1. Setup touch-panel effective range



Adjustment steps

- 1) Trace the edge of the screen along the monitor resin frame with a round-headed thing to obtain the coordinates.
- 2) Press the [BACK] key.

Explanation of the displays

- min_x(A,B) : X coordinate of the touch panel • minimum value received
- max_x(A,B) : X coordinate of the touch panel • maximum value received
- min_y(A,B) : Y coordinate of the touch panel • minimum value received
- max_y(A,B) : Y coordinate of the touch panel • maximum value received

A = A coordinate which is already stored in the SRAM (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).

B = An updated coordinate which is planned to be set in the SRAM this time (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).

[BACK] : The preset effective range is registered, and the screen will return to the remote controller inspection menu. The data of the effective range will be recorded in the SRAM.

In case the compensation value is not preset in the SRAM, the following initial (default) value will be entered automatically at the time of navigation system boot up.

min_x = 42 (right edge limit value)

max_x = 246 (left edge limit value)

min_y = 49 (bottom edge limit value)

max_y = 238 (top edge limit value)

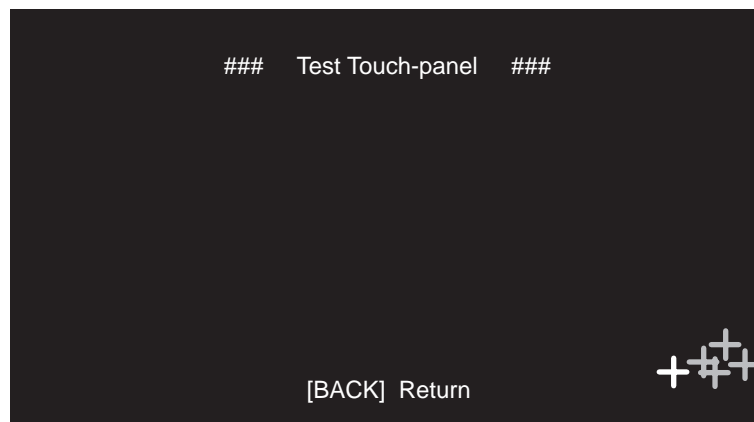
2. Setup calibration



Explanation

- A [+] cursor is displayed at 16 locations on the screen for calibration. Finally, verification of a single point is made. The cursor is always displayed at one location only, and moves on to the next location as the current one is correctly pressed.
- When pressing on the [+] cursor, make sure to press at the center of "+".
- The result of calibration will be recorded in the SRAM.
- If effective operation is not made for 30 seconds, the system will recognize as "erroneous end" and stops the calibration.

3. Test Touch-panel

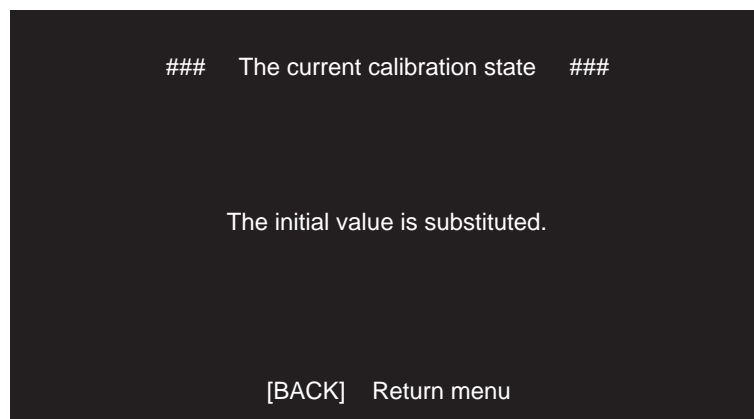


Explanation on touch panel misalignment verification test.

- 1) The test is intended to verify if the touched point on the touch panel is correctly recognized or not.
 [+] cursor will be displayed at 16 locations on the screen.
 The cursor will be displayed in "white color" only one at a time.
 Each time the cursor is touched correctly, the next point will be displayed.
 On the other hand, if it is recognized that the point touched was ± 4 dots vertically and ± 5 dots horizontally away from the center of the displayed [+] cursor, the erroneously recognized coordinate [+] will be drawn in "red color".
- 2) When touching the [+] cursor, touch the center of the + mark correctly.
- 3) If [BACK] is touched, the test will be finished, and the screen will return to the menu screen of the touch panel test mode.

If this test turns out to be NG, it will be necessary to redo "1. Setup touch-panel effective range" and "2. Setup calibration". Repeat the above steps once again.

4. Check now calibration condition



Explanation on the setting status of the calibration compensation value.

The current calibration compensation status is displayed.

The following data will be displayed.

"With no calibration value" (in white characters)

In case the compensation value does not exist in the SRAM.

"The effective range value is stored"

In case the compensation value for the upper limit and the lower limit are preset in the SRAM.

"The calibration compensation value is stored"

In case the calibration compensation values for the 16 points are preset in the SRAM.

"The effective range & calibration value is stored."

In case the upper limit and the lower limit values and the 16 points calibration values are preset in the SRAM.

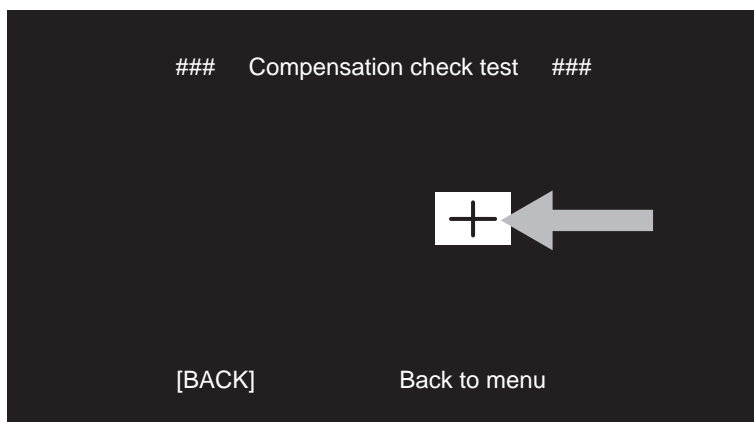
"The initial value is substituted."

In case the value stored as the initial (default) value is preset in the SRAM.

"Error Condition"

In case the SRAM value is demolished or some unexpected situation is happening.

5. Check Touch-panel compensation



[BACK] : The system will return to the remote controller inspection menu.

Explanation of the inspection details

- Regarding this inspection, the title only will be displayed at the initialized stage.
- As shown by the arrow, press any desired location on the monitor.
- A coordinate after the calibration correction will be displayed by the [+] mark against the coordinate recognized as pressed.

6. Check Touch-panel graphics

| | |
|---------------|---|
| ### | Touch-panel coordinates test ### |
| | Cross drawing dot : (79, 80) From system CPU : (0, 0) Coverision effective : (0, 0) After calibration : (0, 0) |
| [POSITION +] | Display of the cood nates pushed |
| [BACK] | Return menu |

[NAVI] + pressing the touch panel : The coordinate of the touch panel at that time will be displayed.

[↑] : Horizontal line will move upward.

[↓] : Horizontal line will move downward.

[←] : Vertical line will move to the left.

[→] : Vertical line will move to the right.

[BACK] : The system will return to the remote controller inspection menu.

Explanation of the displayed coordinate (from top to bottom)

(79, 80) : Coordinate of the crossing point by the vertical and the horizontal lines (X direction, Y direction).

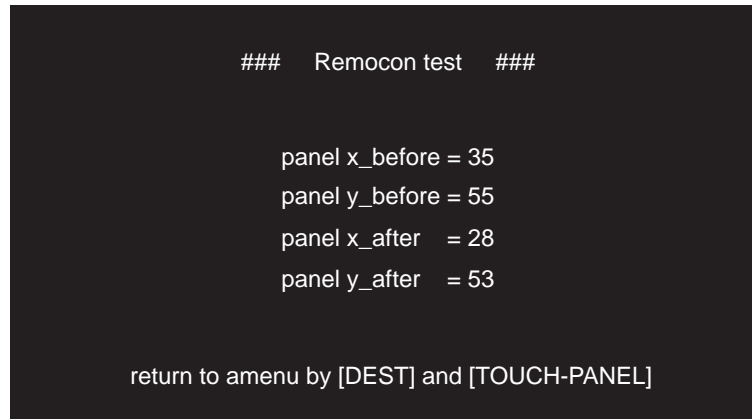
[(0~500, 0~240)]

(0, 0) : AD data value (X direction, Y direction) representing the coordinate of the pressed location received from the system control microprocessor.

(0, 0) : Coordinate (X direction, Y direction) obtained by normalizing the AD data value of the pressed location within the effective range.

(0, 0) : Coordinate (X direction, Y direction) obtained by adding the correction based on calibration to the normalized coordinate.

7. Check Touch-panel navi coordinate



[BACK] + pressing the touch panel will make the system return to the remote controller inspection menu.

Explanation of the displayed content.

panel x_before : X coordinate normalized (expanded) within the effective range.

panel y_before : Y coordinate normalized (expanded) within the effective range.

panel x_after : X coordinate obtained by adding the correction based on calibration.

panel y_after : Y coordinate obtained by adding the correction based on calibration.

Version check

VERSION INFORMATION

| | | | |
|--------------------------|---|------|---|
| 1. System boot version | [| 0.65 |] |
| 2. System OS version | [| 0.65 |] |
| 3. GPS program version | [| 3.60 |] |
| 4. Application version | [| NG |] |
| 5. Language data version | [| NG |] |
| 6. Sound data version | [| NG |] |
| 7. Syscom version | [| 6.11 |] |
| 8. Drive core version | [| 9.22 |] |
| 9. Drive apl version | [| 8.21 |] |
| 10. TV ucom version | [| 7.01 |] |
| + | | | |

Return = [BACK]

| item | content | information | filename |
|-------------------------|--|--|--|
| 1 System boot version | Version information of the system software BOOT section (FLASH) is displayed. | *** -> Version information of the system software BOOT section | EW040BOT.GBR UC040BOT.GBR |
| 2 System OS version | Version information of the system software OS section (FLASH) is displayed. | *** -> Version information of the system software OS section NG -> System program doesn't exist. | EW040SYS.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK) UC040DAT.yyy (yyy : USA, FRA, ESP) |
| 3 GPS program version | Version information of the GPS program (DRAGON) is displayed. | *** -> Version information of the GPS program NG -> GPS program doesn't exist. | EW040GPS.PRG UC040SYS.PRG |
| 4 Application version | Version information of the application program (FLASH) is displayed. | *** -> Version information of the application program NG -> Application program doesn't exist. | EU040APL.PRG |
| 5 Language data version | Version information of the language data (FLASH) is displayed. | *** -> Version information of the language data NG -> Language data doesn't exist. | EW040DAT.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK) UC040DAT.yyy (yyy : USA, FRA, ESP) |
| 6 Sound data version | Version information of the sound data (FLASH) is displayed. | *** -> Version information of the sound data NG -> Sound data doesn't exist. | EW040SDF.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SDF.yyy (yyy : USA, FRA, ESP) |
| 7 Syscom version | Version information of the system microprocessor is displayed. | *** -> Version information of the system microprocessor NG -> Communication with the system microprocessor has not been established. | |
| 8 Drive core version | Core version information of the microprocessor for mechanism control is displayed (V+R) | *** -> Core version information of the microprocessor for mechanism control NG -> Communication with the microprocessor for mechanism control has not been established. NON -> ROM only mechanism | |
| 9 Drive apl version | Application version information of the microprocessor for mechanism control is displayed (V+R) | *** -> Application version information of the microprocessor for mechanism control NG -> Communication with the microprocessor for mechanism control has not been established. NON -> ROM only mechanism | |
| 10 TV ucom version | Version information of the microprocessor for TV is displayed | *** -> Version information of the microprocessor for TV NG -> Communication with the microprocessor for TV has not been established. | |
| 11 Monitor ucom version | Version information of the microprocessor for Monitor is displayed | *** -> Version information of the microprocessor for Monitor NG -> Communication with the microprocessor for Monitor has not been established. | |
| 12 System language | System language file in the system program (FLASH) is displayed | *** -> System language program file name NG -> System language data doesn't exist. | EW040SYS.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SYS.yyy (yyy : USA, FRA, ESP) |
| 13 Application language | Application language data file (FLASH) is displayed | *** -> Application language data file name NG -> Application language data doesn't exist. | EW040DAT.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040DAT.yyy (yyy : USA, FRA, ESP) |
| 14 Sound data language | Language sound data file (FLASH) is displayed | *** -> Language sound data file name NG -> Language sound data doesn't exist. | EW040SDF.xxx (xxx : GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SDF.yyy (yyy : USA, FRA, ESP) |

● Error Information

1. Error Information

Descriptions of error information, for errors arising from system software problems, will be provided in this section.

Up to eight sets of information, related to the system software's errors, will be stored in the SRAM.

By executing hi_sysdwn() the line number (on which the error occurred), the error code and detailed information of the error, will be stored in the error log.

Hi_sysdwn() will be executed in the following two circumstances:

1. hi_sysdwn() will be intentionally stored if fatal errors occur with each BIOS.
2. If multiple exceptions, fatal exceptions, illegal command codes and trap command errors occur.

2. Error Log's Entry Function

Up to twenty-four sets of information, related to errors starting with the latest error, will be displayed by the error log entry function.

There are two types of error log displays.

The display will vary when the argument provided to hi_sysdwn(), depending on whether detailed information (such as program name, version number, creation date, creation time and creator name) exists or not.

1. When detailed information exists:

```

** ERROR INFORMATION **

ERCD = 00000028(40)
FILE  = ini_usf.c
LINE  = 510(000001fa)
VERS  = 1.1.1.1
DATE  = 2003/08/08
TIME  = 06:07:26
AUTH  = daisuke

ERROR-TIME ffff-ff-ff ff:ff:ff

No.4 ← ERROR No.3 → No.2
Stop when push [BACK] button.

```

| | |
|------------|---|
| ERCD | Error code. |
| FILE | Error occurring program name. |
| LINE | Error occurring program line number. |
| VERS | Error occurring program version number. |
| DATE | Error occurring program creation date. |
| TIME | Error occurring program creation time. |
| AUTH | Error occurring program creator name. |
| ERROR-TIME | Error occurrence date and time. |

2. When detailed information does not exist:

**** ERROR INFORMATION ****

type = 000000b7(183)
ercd = ffffc002(-16382)
inf = ffb7ac18(-4740072)

ERROR-TIME ffff-ff-ff ff:ff:ff

No.2 ← ERROR No.1 → No.24

Stop when push [BACK] button.

| | |
|------------|--------------------------------------|
| type | Error occurring program line number. |
| ercd | Error code. |
| inf | System down information. |
| ERROR-TIME | Error occurrence date and time. |

If an error occurs due to a multiple exception, the definitions will change to the following:

| | |
|------------|--|
| type | Execution address at the time of error occurrence. |
| ercd | Contributing factor for the exceptions. |
| inf | Program status word at the time of error occurrence. |
| ERROR-TIME | Error occurrence date and time. |

3. Error Information Switch

The product (with default settings) will display error messages to the user if an error occurs.

Error information can be displayed if an error occurs by switching the error information in the test mode.

In either case, the error log entry display will be the same.

1) Error message display (default settings):

• Setting in the test mode:

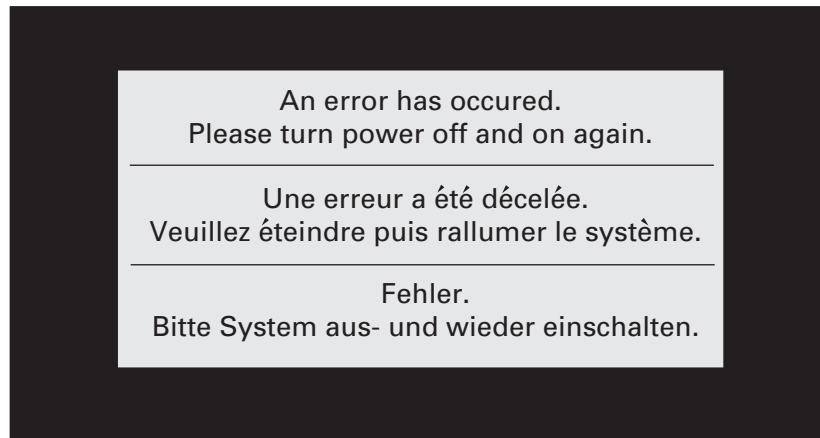
TESTMODE MENU [SERVICE_MENU(TECHNICAL)]

1. Change to display error [Message]
2. Start within debug shell [On]
3. Program loading [Disc version]
4. GPS assessment
5. File maintenance
6. Program forced write

<== back page ==> next page

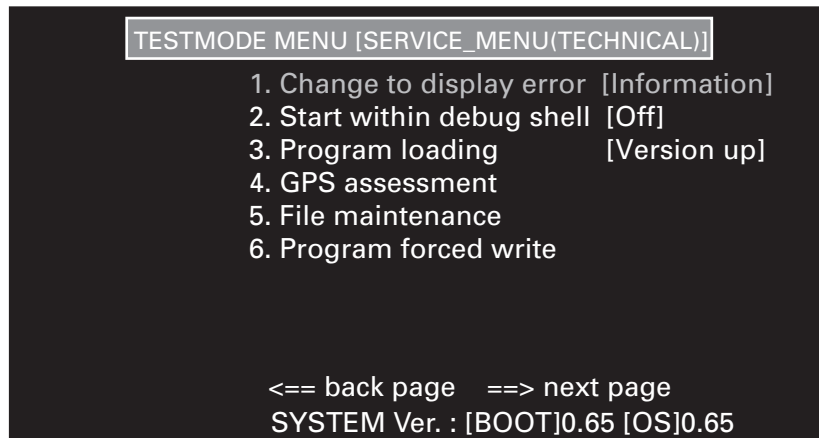
SYSTEM Ver. : [BOOT]0.65 [OS]0.65

- Display when an error occurs:



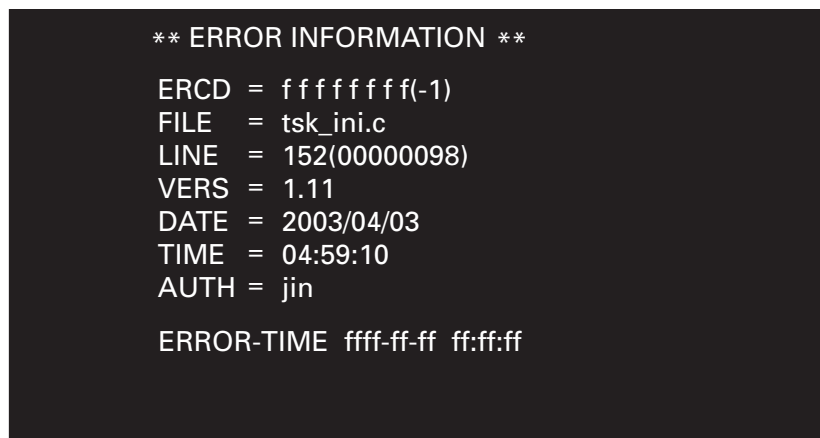
2) Error information display

- Settings in the test mode:



Display when an error occurs:

- If error information exists:



- If error information does not exist:

** ERROR INFORMATION **

type = 00000109(265)

ercd = 00000001(1)

inf = ffe83230(-1560016)

ERROR-TIME ffff-ff-ff ff:ff:ff

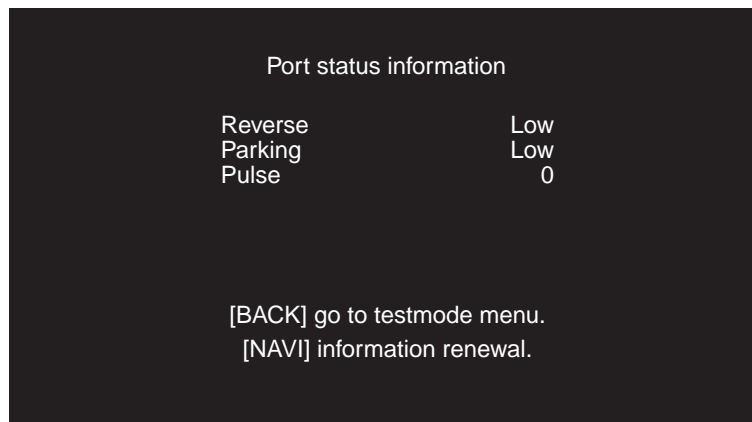
4. Watch dog timer

This product has a built-in mechanism to monitor at a certain interval whether the software is correctly operating or not.

Once this mechanism becomes inoperable, "reset request" will be sent to the power supply microprocessor when a preset time (approximately 4 seconds) has elapsed.

In order to record operational situation of such an occasion, a special code which is not an error code is recorded in the ERCD.

● Port status information



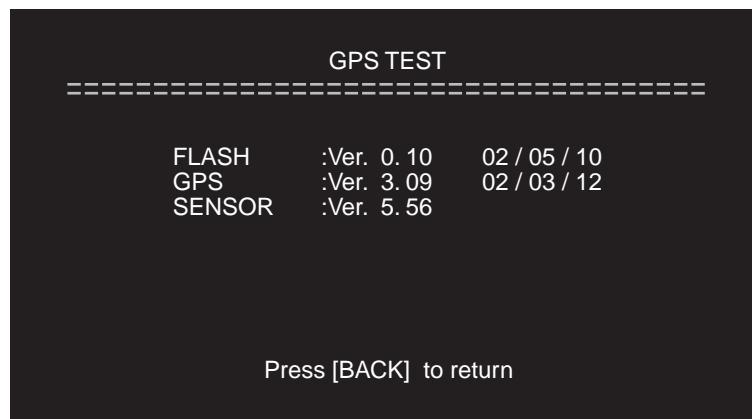
| Display | Content of inspection |
|---------|-----------------------|
| Reverse | Reverse port status |
| Parking | Parking port status |
| Pulse | Pulse status |

How to operate.

[BACK] : Return to the test mode menu.

[NAVI] : Update of the port status.

● GPS assessment



| | |
|--------|--|
| FLASH | Display of DRAGON FLASH ROM version information. |
| GPS | Display of GPS version information. |
| SENSOR | Display of sensor version information. |

● SENSOR test

SENSOR TEST

```
=====
G-SENSOR      :      1.9875 [V]
GYRO          :      2.4804 [V]
POWER         :      14.9453 [V]
FIT UP        :      OK (Best)
DISTANCE      :      SPEED PULSE
LOW SPEED     :      OK
```

Press [BACK] to return

| | | | |
|-----------|---|---|-------------|
| G-SENSOR | Display of G sensor voltage | | |
| GYRO | Display of gyro voltage | | |
| POWER | Display of power supply voltage | | |
| FIT UP | Display of installation status | | |
| | Display | Status | |
| | • NG | Installation position is NG. | |
| | • OK | Installation position is OK. (3rd best) | |
| | • OK (Better) | Installation position is OK. (2nd best) | |
| | • OK (Best) | Installation position is OK. (Best) | |
| DISTANCE | Display of distance calculation status. | | |
| | Display | Status | |
| | • INITIALIZE | Sensor initial learning is under way. | |
| | • GPS | GPS distance. (Model without G sensor. No pulse connection.) | |
| | • G-SENSOR | G sensor distance. (simple hybrid.) | |
| | • ND-PG1 | ND-PG1 distance. | |
| | • SPEED PULSE | Vehicle speed pulse distance. | |
| LOW SPEED | Display of minimum output speed of a low speed NG vehicle. (Depends on DISTANCE status.) | | |
| | DISTANCE status | SPEED PULSE status | Display |
| | SPEED PULSE | Low vehicle speed pulse learning is under way. | CHECK |
| | | Low vehicle speed pulse is OK. | OK |
| | | Low vehicle speed is NG. | NG xx[km/h] |
| | Others | | ----- |

● DVD Test Modes

CAUTIONS

Protection is not operational against a mechanical runaway conditions during servo testing.
Critical damage can result if the system is allowed to continue in a mechanical runaway state.
If abnormal noise is heard during the test, turn the power OFF immediately.

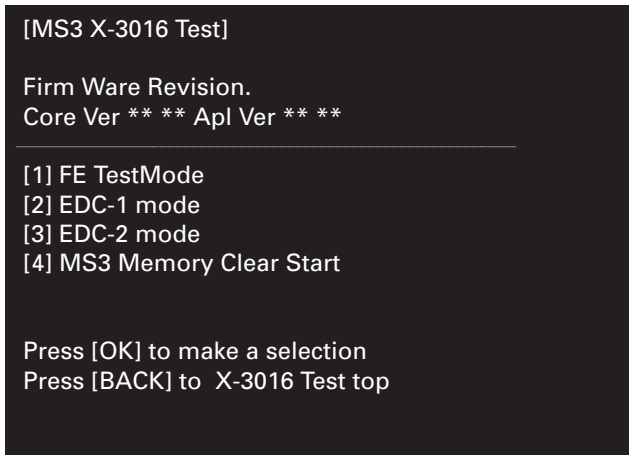
Keys used for the DVD test mode

[OK] : Selection decided.

[BACK] : Go back.

Directional keys : [↑ ↓ ← →] keys

[MS3 X-3016 Test]



Firm Ware Revision : Version of the drive used.

[1] Start the FE test mode.

[2] EDC1 mode (available for DVDs only).

[3] EDC2 mode (available for DVDs only).

[4] Executes the MS3 memory cleaning operation.

[OK] Executes.

[BACK] Returns to the test mode menu.

[X-3016 FE Test menu]

[X-3016 FE Test menu]

Status : Power Off Data : 0000 0000

[1] Power On

[2] Disc tipe : DVD 1-Layer

[3] Disc tipe : DVD 2-Layer

[4] Disc tipe : CD

[5] Disc tipe : CD-RW

[6] Disc Eject

Press [OK] to make a selection

Press [BACK] - Test top(Power Off)

Status : "Power Off (during normal conditions)."

[1] Power On (proceed to servo test 1-0).

[2] Disc type : DVD single-layer.

[3] Disc type : DVD double-layer.

[4] Disc type : CD.

[5] Disc type : CD-RW.

[6] Ejects the Disc.

[OK] Executes.

[BACK] Returns to the initial screen display for the test.

[X-3016 DVD Test]

[X-3016 DVD Test] EDC-1

Layer : 0

ID : 20 03 0A 63

[1] Select Layer 0

[2] Select Layer 1

[3] Disc Eject

Press [OK] to make a selection

Press [BACK] to DVD Test top(EDC end)

EDC-1 : Performs consecutive EDC tests.

EDC-2 : Performs EDC tests for each block.

ID : Performs ID of the test.

[1] Select layer 0.

[2] Select layer 1.

[3] Ejects the Disc.

[OK] Executes.

[BACK] Returns to the test mode menu.

[X-3016 DVD Test]

[X-3016 DVD Test] EDC-1

Layer : 0
ID : 20 03 0A 63

- [1] cursor right
- [2] cursor left
- [3] cursor up
- [4] cursor down
- [5] Star EDC-1
- [6] Disc Eject

Press [OK] to make a selection
Press [BACK] to DVD Test top(EDC end)

EDC-1 : Performs consecutive EDC tests.
EDC-2 : Performs EDC tests for each block.
ID : Performs ID of the test.

- [1] Moves the cursor to the right by one increment.
- [2] Moves the cursor to the left by one increment.
- [3] Moves the cursor up by one increment.
- [4] Moves the cursor down by one increment.
- [5] Starts the EDC test.
- [6] Ejects the Disc.
- [OK] Executes.
- [BACK] Returns to the test mode menu.

[X-3016 DVD 1-Layer Servo. Test(1-0)]

[X-3016 DVD 1-Layer Servo.Test(1-0)]
Status : Power On Data : 1000 0000

- [1] Focus Close
- [2] Focus Search(Start/Stop)
- [3] CRG + (Start/Stop) [4] CRG - (Start/Stop)
- [5] (LD-ON->LD-OFF / LD-OFF->LD-ON)
- [6] CRG HOME

FE Offset : 0000 0000 TE Offset : 0000 0000
AS Offset : 0000 0000 ENV Offset : 0000 0000
TG Offset : 0000 0000 DBAL : 0000 0000

Press [OK] to make a selection
Press [BACK] to DVD-1

Test items are basically the same for both DVDs and CDs.

Status : "Power On (during normal conditions)."

- [1] Closes in on the focus (proceed to servo test 2-0).
- [2] Performs a focus search operation (S-curve measurement). Focus operation will then be stopped.
- [3] Moves the carriage (external). The carriage transition operation will then be stopped.
- [4] Moves the carriage (internal). The carriage transition operation will then be stopped.
- [5] Performs LD-ON/OFF operation.
- [6] Returns the carriage to the home position.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

* Focus closing and searching will not operate unless the LD-ON setting is made to less than 9 seconds.

[X-3016 DVD 1-Layer Servo. Test(2-0)]

[X-3016 DVD 1-Layer Servo.Test(2-0)]
 Status : Focus Closed Data : 2000 0000

[1] T.Bal
 [2] Focus Jump
 [3] CRG + (Start/Stop)
 [4] CRG - (Start/Stop)

FE MAX : 0000 0000 FE MIN : 0000 0000
 AS MAX : 0000 0000 ENV MAX : 0000 0000
 FE Normal : 0000 0000
 TE MAX : 0000 0000 TE MIN : 0000 0000

Press [OK] to make a selection
 Press [BACK] to DVD-1

Test items are basically the same for both DVDs and CDs.

Status : "Focus Close (during normal conditions)."

- [1] Adjusts tracking balance (proceeds to servo test 3-0).
- [2] Performs a focus jump operation.
- [3] Moves the carriage (external). The carriage transition operation will then be stopped.
- [4] Moves the carriage (internal). The carriage transition operation will then be stopped.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

[X-3016 DVD 2-Layer Servo. Test(3-0)]

[X-3016 DVD 2-Layer Servo.Test(3-0)]
 Status : Focus Closed2 Data : 3000 0000

[1] Tracking Close
 [2] CRG + (Start/Stop) [3] CRG - (Start/Stop)

T.Bal(Layer 0) : 0000 0000
 T.Bal(Layer 1) : 0000 0000
 TE Normal(Layer 0) : 0000 0000
 TE Normal(Layer 1) : 0000 0000

Press [OK] to make a selection
 Press [BACK] to DVD-1

Test items are basically the same for both DVDs and CDs.

Status : "Focus Close 2 (during normal conditions)."

- [1] Performs tracking close operation (proceeds to servo test 4-0).
- [3] Moves the carriage (external). The carriage transition operation will then be stopped.
- [4] Moves the carriage (internal). The carriage transition operation will then be stopped.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

[X-3016 DVD 2-Layer Servo. Test(4-0)]

```
[X-3016 DVD 2-Layer Servo.Test(4-0)]
Status :Tracking Close    Data : 4000 0000

[1] Error Rate...1.105E-4  [2] Read Speed: x1.3 CLV
[3] Track Jump+  [4] Track Jump-
[5] Focus Jump  [6] ID Search
[7] Tracking Open (to Focus Close)

F.Bal(0) : 0000 0000  F.Gain(0) : 0000 0000
F.Bal(1) : 0000 0000  F.Gain(1) : 0000 0000
T.Gain(0) : 0000 0000  AS Normal(0) : 0000 0000
T.Gain(1) : 0000 0000  AS Normal(1) : 0000 0000

Press [OK] to make a selection
Press [BACK] - DVD-1
```

Test items are basically the same for both DVDs and CDs.

Status : "Tracking Close (during normal conditions)."

- [1] [OK] triggers measurement of the error rates (other operations can not be performed for approximately 10 seconds).
- [2] [OK] triggers switching of the reproduction speed.
- [3] Performs track jumping by a designated number of tracks (external).
- [4] Performs track jumping by a designated number of tracks (internal).
- [5] Performs a focus jump operation (for DVDs only).
- [6] Designates an ID (for DVDs only).
- [7] Performs a tracking open operation (for the focus close status : will proceed to servo test 2-0).
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

Reproduction speeds

| | | |
|----------|----------------------|-----------|
| L0-layer | DVD x 1.3CLV, CD x 2 | 4000 0000 |
| L0-layer | DVD x 1CLV | 4200 0000 |
| L1-layer | DVD x 1.3CLV | 4100 0000 |
| L1-layer | DVD x 1CLV | 4300 0000 |

[X-3016 DVD Servo. Test(4-3)]

```
[X-3016 DVD Servo.Test(4-3)]
Status :Tracking Closed    Data : 4x00 0000

[1] Track appointment
[2] Start Track Jump+/-

Press [OK] to make a selection
Press [BACK] to Back
```

Test items are basically the same for both DVDs and CDs.

Status : "Tracking Close (during normal conditions)."

- [1] Performs a track number designation (MS3 cyclically switches the available patterns).
- [2] Starts the tracking jump operation (will proceed to servo test 4-0).

[X-3016 DVD Servo. Test(4-6)]

[X-3016 DVD Servo.Test(4-6)]
Status :Tracking Close Data : 4A00 0000

- [1] ID appointment : 0000 0000
- [2] cursor right
- [3] cursor left
- [4] cursor up
- [5] cursor down
- [6] Start ID Search

Press [OK] to make a selection
Press [BACK] to Back

Available for DVDs only.

Status : "Tracking Close (during normal conditions)."

- [1] Displays designated ID.
- [2] Moves the cursor to the right by one increment.
- [3] Moves the cursor to the left by one increment.
- [4] Moves the cursor up by one increment.
- [5] Moves the cursor down by one increment.
- [6] Starts the ID search operation (return to servo test 4-0).

Display data of adjustment value

| | | |
|---------------------|---|-----------------------------|
| FE Offset | FE offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| TE Offset | TE offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| AS Offset | AS offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| ENV Offset | ENV offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| TG Offset | TG offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| DBAL | DBAL offset coefficient | 0000 0000[h] - FFFF FFFF[h] |
| FE MAX | FE MAX level | 0000 0000[h] - FFFF FFFF[h] |
| FE MIN | FE MIN level | 0000 0000[h] - FFFF FFFF[h] |
| AS MAX | AS MAX level | 0000 0000[h] - FFFF FFFF[h] |
| ENV MAX | ENV MAX level | 0000 0000[h] - FFFF FFFF[h] |
| FE Normal | FE normalize coefficient | 0000 0000[h] - FFFF FFFF[h] |
| S.Gain | Spindle gain coefficient | 0000 0000[h] - FFFF FFFF[h] |
| T.Bal (layer-0) | TBAL coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| T.Bal (layer-1) | TBAL coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| G.Bal (layer-0) | GBAL coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| G.Bal (layer-1) | GBAL coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| TE Normal (layer-0) | TE normalize coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| TE Normal (layer-1) | TE normalize coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| F.Bal (layer-0) | FBAL coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| F.Bal (layer-1) | FBAL coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| F.Gain (layer-0) | Focus gain coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| F.Gain (layer-1) | Focus gain coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| T.Gain (layer-0) | Tracking gain coefficient (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| T.Gain (layer-1) | Tracking gain coefficient (layer-1) | 0000 0000[h] - FFFF FFFF[h] |
| AS Normal (layer-0) | AS normalize adjustment value (layer-0) | 0000 0000[h] - FFFF FFFF[h] |
| AS Normal (layer-1) | AS normalize adjustment value (layer-1) | 0000 0000[h] - FFFF FFFF[h] |

6.8 USING THE TEST DISC

TEST DISC Part No. : GGV1137

REMOTE CONTROLLER Part No.

| Part No. | Description |
|----------|--|
| CXB7427 | Co-packed remote controller with AVIC-8DVD/EW |
| CXB7426 | Co-packed remote controller with AVIC-9DVD/EW, UC |
| CXB9118 | Co-packed remote controller with AVIC-8DVD-2/EW, -9DVD-2/EW, -90DVD/UC |
| CD-R11 | Optional remote controller |

1. Start/End

1-1. Start

When the test disc is inserted, the title “NN622/NN623 TEST DISC” will be displayed.

If [RETURN] key is pressed while the title is being displayed, the menu screen will be displayed. If no key is pressed, the first screen of the inspection screen for line will be displayed.

Title screen



1-2. End

No action is taken.

2. Key operation

- In the case of inspection screen for line

1. The inspection screen and the menu screen can be switched alternately using the [CR] key on the remote controller.
2. The screen will go back to the previous screen by the [↑] key on the remote controller.
3. The screen will move forward to the next screen by the [↓] key on the remote controller.
(Unless the inspection is finished, the screen will not move forward. The screen will not move forward, too, if there is an NG item.)

* Refer to the explanation of each screen for the details.

- In the case of service menu screen

1. Select an inspection item by the [↑] and [↓] keys on the remote controller, and inspection screen will appear when the [CR] key is pressed.
2. When the [RETURN] key on the remote controller is pressed, the screen will go back to the menu screen.

* Refer to the explanation of each screen for the details.

Menu screens

--- Self Test Menu ---

1. External Connection
2. Dual Illumination check
3. Touch Panel check
4. Microphone & Gain control
5. Data Communication (Short)
6. Data Communication (Open)
7. Natural Drawing & Rear View

[CR KEY] The selected menu is started.

--- Self Test Menu ---

8. VTR In check
9. FM multiplex tuner error
10. GPS Self check
11. Software version display
12. Language Flag setup mode
13. Memory all cleay
14. GPS sensitivity measurement

[CR KEY] The selected menu is started.

--- Self Test Menu ---

15. Picture RGB check
16. GPS information
17. Sound play
18. File Maintenance mode
19. Picture check
20. Device check(Design engineer only)
21. Memory all clear (for Service)

[CR KEY] The selected menu is started.

--- Self Test Menu ---

22. BackUp Memory clear
23. -----
24. -----
25. -----
26. -----
27. -----
28. -----

[CR KEY] The selected menu is started.

3. Inspection screen

1. Connection check

```

1. Connection check
Illumination signal      ON
Parking brake signal     ON
Reverse gear signal      REV
Car speed signal         0
Gyro                     LEFT << 42374
Gyro voltage             2.434V OK
delta sigma              0.6 OK
Battery voltage          12.3V
G sensor                 ++ 58431
G sensor voltage         1.985V OK
delta sigma              0.6 OK
Remote controller        PRESENT
Mic connect              ON
[joy stick down] It progresses to the next inspection.

```

- The status of the item indicated in the above figure will be updated every second.
- Set ANTON port to H when starting the inspection and set to L when ending.
- When the gyro is in operation, a BEEP sound will be made when the G sensor is activated.
Right: 500Hz, Left: 700Hz. Up: 800Hz, Down: 600Hz
- Conditions for moving on to the next inspection
 - Illumination status is changing between ON and OFF.
 - Parking brake status is changing between ON and OFF.
 - Reverse status is changing between NOR and REV.
 - Pulse is changing to a value other than 0/0.
 - Mic connect status is changing between ON and OFF.
- All keys on the main body as listed below have been pressed at least once.

Standard value for other items

- GYRO voltage
 - OK: 2.5 ± 0.15
 - USABLE: 2.5 ± 0.30
- GYRO variation
 - OK: Less than 30
- G sensor voltage
 - OK: 2.5 ± 0.15
 - USABLE: 2.5 ± 0.30
- G sensor variation
 - OK: Less than 60

- Only when all the conditions are met, you can move on to the next inspection by the [\downarrow] key on the remote controller. It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

<Supplemental explanation regarding error display>

| Displayed message | Details of the error |
|-------------------------|---|
| Structural data error | An error when data cannot be received from A/D converter. Defective device of the A/D converter seems to be the cause. It will also happen in case the vehicle speed pulse cannot be measured. (rare) |
| No connection to DRAGON | An error when communication with DRAGON cannot be established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |
| Command error | Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |
| Unknown error | Error due to unknown reason. |

2. Dual Illumination color check

2. Dual Illumination color check

[NAVI] The color of illuminations is changed.
[joy stick down] It progresses to the next inspection.

- Color switching for dual illumination can be made.
- In the case of UC model, this inspection will not be performed, and the system will move on to the next inspection.
- Color is changed to GREEN/LED by the [NAVI] key on the remote controller.
- Move on to the next inspection by the [↓] key on the remote controller.

3. Touch Panel check

- Touch panel inspection must be performed at 16 locations.
- If the coordinate obtained by pressing the white spot is within the effective range, it will be determined as OK, and the next white spot will be displayed.
- If the coordinate obtained is outside of the effective range, it will be determined as NG.
- If all 16 locations turned out to be OK, then this test is considered to be OK.
- If coordinate cannot be obtained in approximately 5 seconds after the white spot is displayed, the inspection is determined as NG.
- Only if the inspection is OK, the inspection will move on to the next step by the [↓] key on the remote controller.

4. Microphone & Gain control check

4. Microphone & Gain control check

Gain level(0-7) 7

REC

[→] raise gain
[←] lower gain
[joy stick down] It progresses to the next inspection.

- The voice channel is inspected by recording the voice from MIC input (Lch) on a memory, playing back the recorded data and outputting from the SP.
- Recording of MIC input voice and playback of the recorded data is done at every second. ("1 second recording → 1 second playback" will be repeated during inspection.) "REC" and "PLAY" will be displayed on the screen during recording and play back, respectively.
- Voice channel
MIC voice input → ADC Lch input → ASIC voice block → Data storage (recorded on the memory)
Play back of recorded voice data → ASIC voice block → DAC Lch output → SP output
- Operation (remote controller)
[←] : MIC input gain (PROGGAIN0-2) is lowered.
[→] : MIC input gain (PROGGAIN0-2) is increased.
[NAVI] : Muting of ONSEIMUTE signal is switched between ON and OFF by a toggle switch.
[↓] : Move on to the next inspection.

5. Data Communication (Short Circuit) check (Not for service)

5. Data Communication (Short Circuit) check

Serial I/O #5(for Extension) OK
Serial I/O #7(for Debug) OK

[joy stick down] It progresses to the next inspection.

- SIO connection short is checked.
- Loop back check is performed on 5CH and 7CH.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

6. Data Communication (Open Circuit) check (Not for service)

6. Data Communication (Open Circuit) check

Serial I/O #5(for Extension) OK
Serial I/O #7(for Debug) OK

[joy stick down] It progresses to the next inspection.

- SIO connection open is checked.
- Check is performed on 5CH and 7CH.
- Do not connect anything to the terminal. OK will be indicated under "open" condition.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

7. Natural Drawing & Rear View



- Natural image consisting of 256 colors will be drawn on the BG screen.
- ADPCM 1kHz sine wave at the sampling rate of 19kHz will be output for 30 seconds.
- Rear view image will be displayed on the right hand side of the screen.
- GUIDEON terminal will be set to H when entering the screen, and set to L when exiting the screen.
- Volume level can be changed by the [←] and [→] keys on the remote controller. (0 to 9)
[JPEG file name: ZHITO1.JPEG]
[Voice file name: A19K01KS.WAV]
- You can move on to the next inspection by the [↓] key on the remote controller.

8. VTR check

8. VTR check

[joy stick down] It progresses to the next inspection.

- External input image (VTR input image) is displayed and voice is outputted.
- You can move on to the next inspection by the [↓] key on the remote controller.

9. FM multiplex tuner error rate measurement

9. FM multiplex tuner error rate measurement

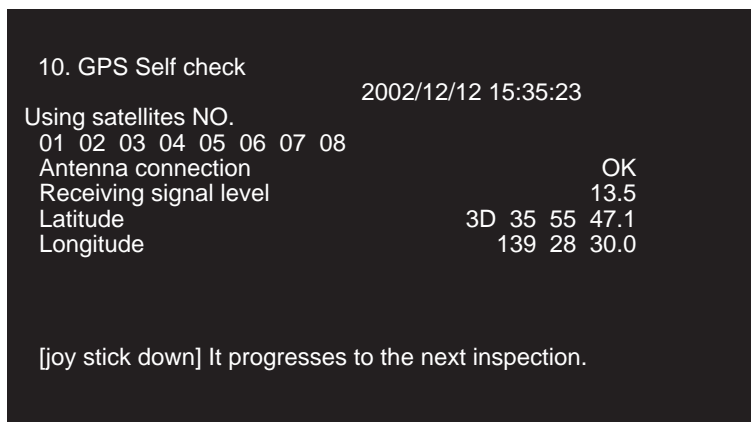
Push Back key to go to re-check.

| | |
|--------------------------------|-------|
| FM Frequency | 87.50 |
| Frequency to check | 87.50 |
| Blocks Received Correctly | 0500 |
| Blocks with one bit corrected | 0000 |
| Blocks with two bits corrected | 0000 |
| Blocks Received with error | 0000 |

[<- -> to adjust FM frequency]
[joy stick down] It progresses to the next inspection.

- FM multiplexing error is measured.
- In the case of UC model, this inspection is not performed and the system will move on to the next inspection.
- Default frequency is 87.5MHz.
- When entering this mode for the first time, the result of measurement at the time of test disc boot up will be displayed.
- After the measurement is taken, the frequency can be changed by the [←] and [→] keys.
- 500 blocks will be measured, and if there are 450 or more blocks without error, then it will be determined as OK.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

10. GPS Self check



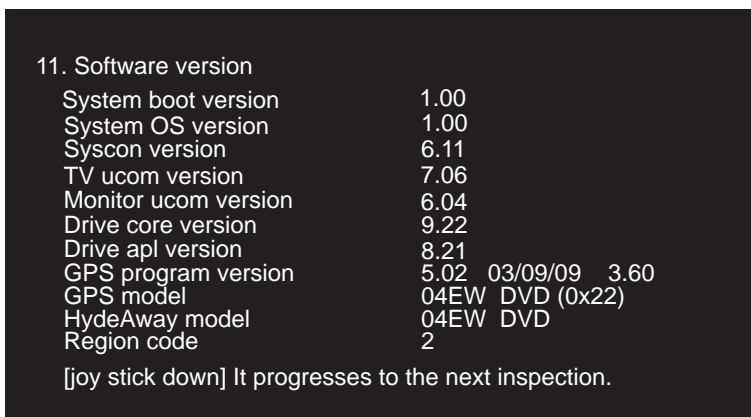
- GPS receiving status will be displayed.
- Conditions to move on to the next inspection.
 - Antenna connection is OK.
 - Data is received from one or more satellite.
 - Time is being displayed.
- When all the conditions are met, the background color will change to blue.
- Only when all the conditions are met, you can move on to the next inspection by the [↓] key on the remote controller.

It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

<Supplemental explanation regarding error display>

| Displayed message | Details of the error |
|-------------------------|--|
| No connection to DRAGON | This is an error when communication with DRAGON is not established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |
| Command error | Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |
| Invalid data | This is an error when request is made while the data for response is not prepared (not obtained from DRAGON). Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |

11. Software version



- It indicates the version information of the software.
- As for the "GPS model", it will be considered OK if either "04EW DVD" or "04UC DVD" is displayed.
- As for the "Hide away model", it will be considered OK if either "04EW DVD" or "04UC DVD" is displayed.
- As for the region code, it will be considered OK if "2" is displayed in the case of EW model and if "1" is displayed for UC model.
- When "GPS model", "Hide away model" and "region code" are all OK, you can move on to the next inspection by the [↓] key on the remote controller.

12. Language selection flag initialize

12. Language selection flag initialize

Language selection flag is initialize.

[joy stick down] It progresses to the next inspection.

- When the system enters into this inspection, language selection will be set to the original setting made at the time of shipment (i.e. no setting).
 - * The setting is made to display the screen for selecting the language to be used at the initial boot up after the shipment out of the factory.
- The setting is made when the system enters into this inspection.
- You can move on to the next inspection by the [↓] key on the remote controller.

13. All memory clear (Not for service)

13. All memory clear

The clearance of SRAM (application domain)
 The clearance of FLASH (application domain)
 Elimination of a sensor study value

[NAVI] Inspection is performed.

- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- Sensor learning level is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.
- Only when everything is OK, you can move on to the next inspection by the [↓] key on the remote controller.

14. GPS sensitivity measurement

14. GPS sensitivity measurement
 Satellite NO. 3 [← -> to select satellite]

| CH. | Look | SNR(AMU) | SNR(dB) |
|-----|------|--------------|----------|
| 1 | OK | 12.3 | 23.4 |
| 2 | OK | 12.3 | 23.4 |
| 3 | OK | 12.3 | 23.4 |
| 4 | OK | 12.3 | 23.4 |
| 5 | OK | 12.3 | 23.4 |
| 6 | OK | 12.3 | 23.4 |
| 7 | OK | 12.3 | 23.4 |
| 8 | OK | 12.3 | 23.4 |
| ALL | OK | Sensitivity: | 20.4(db) |
| | | DoppRMS: | 1.78(Hz) |

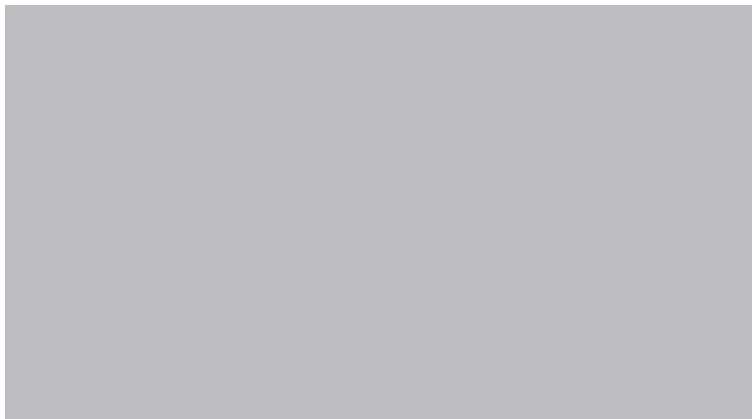
 [joy stick down] Raw work inspection is ended.

- GPS can be changed by the [←] and [→] keys on the remote controller.
- Sensitivity of the selected GPS is displayed by the [RETURN] key on the remote controller.
- Production engineering inspection is ended and service menu is displayed by the [↓] key on the remote controller.

<Supplemental explanation regarding error display>

| Displayed message | Details of the error |
|-------------------------|--|
| No connection to DRAGON | This is an error when communication with DRAGON is not established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |
| Command error | Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective. |

15. Picture RGB check



- RGB bridge is inspected.
- The screen can be switched by the [←] and [→] keys on the remote controller.
- RGB is drawn in the pattern of R 100% → R 50% → G 100% → G 50% → B 100% → B 50%.
- Total of 6 screens will be displayed.

16. GPS information

| 16. GPS information | | | | | | | |
|--------------------------------------|-----|-------|-------|-------------------|-----|---------|-------|
| 0D | T2 | H25.5 | V25.5 | 01/03/28 23:05:47 | | | |
| SV | Azi | Ev | SNR | Flag | Acc | Doppler | SrchW |
| 10 | 119 | 39 | 3.0 | UY-- | 3 | -2249 | 2883 |
| 26 | 25 | 60 | 4.9 | UYC- | 2 | -1051 | 3496 |
| 18 | 310 | 25 | 0.0 | ---m | f | +0 | 12487 |
| 23 | 305 | 33 | 0.0 | ---m | f | +0 | 21812 |
| 17 | 317 | 49 | 0.0 | ---m | f | +0 | 21812 |
| 9 | 196 | 56 | 0.0 | ---m | f | +0 | 21812 |
| 14 | 260 | 73 | 0.0 | ---m | f | +0 | 5994 |
| 4 | 142 | 81 | 0.0 | ---m | 3 | +0 | 5994 |
| Position Sv Stat Ver & Diag Err Info | | | | | | | |

- "Position information" will be displayed when the cursor is at the "Position" position and the [CR] key is pressed on the remote controller.
- "Status information" will be displayed when the cursor is at the "Sv Stat" position and the [CR] key is pressed on the remote controller.
- "Diagnosis information" will be displayed when the cursor is at the "Ver&Diag" position and the [CR] key is pressed on the remote controller.
- "Error information" will be displayed when the cursor is at the "Err Info" position and the [CR] key is pressed on the remote controller.
- When an inspection is performed, "status information" (the screen shown above) will be displayed first.

17. Sound play

| 17. Sound play | |
|---------------------------------------|---|
| ADPCM fixation 11K 1K L | |
| ADPCM fixation 11K 1K mono | |
| ADPCM fixation 11K 1K R | |
| ADPCM fixation 11K 1K ste | |
| ADPCM fixation 19K 1K L | |
| ADPCM fixation 19K 1K mono | |
| ADPCM fixation 19K 1K R | |
| Main fader Vol.[0-15] | 6 |
| [-> Vol up, <- Vol down] | |
| [return] It returns to a menu screen. | |

- Voice file (WAVE format) will be played back.
- The voice selected by the [CR] key on the remote controller will be played back.
- Volume level can be changed by the [←] and [→] keys on the remote controller.

18. File maintenance

```

18. File maintenance
Totale Capacity : 216.5K Remain : 216.3K
Media:SRAM: Path:
  LOGININFO.CFG 20      84 02 / 08 / 07 17:35
  LOCPOS .DAT 20      68 01 / 01 / 01 21:22
  
```

[1]Media [2]Copy [3>Delete [4]Dump [0]Help

- File can be copied, deleted or dumped.
Refer to HELP for “how to use” each function.

19. Picture check MENU

19. Picture check MENU 1/2

1. Plane
2. Color Bar
3. Cross Hatch
4. Sweep
5. Step
6. Ramp
7. Window
8. Mono Scope
9. Vertical Resolution Column

[Push OK to make a selection]
[return] It returns to a menu screen.

A pattern is selected by the [↑] and [↓] keys and an image is displayed by the [CR] key.

1. Plain

...Display is made in the order of black, blue, red, pink, green, light blue, yellow and white by the [←] and [→] keys operation on the remote controller.

2. Color bar

...White, yellow, light blue, green, pink, red, blue, black bars will be displayed from left to right.

3. Cross hatch

4. Sweep

5. Step

6. Lamp

7. Window

8. Mono scope

9. Cycle line 1

10. Cycle line 2

11. Horizontal stripe 1

12. Horizontal stripe 2

13. Chinese character pattern

14. Map (map.jpg)

15. Natural image (nature.jpg)

16. Portrait 1 (hito1.jpg)

17. Portrait 2 (hito2.jpg)

20. Device Check

20. Device Check

1. SDRAM (0X48000000 - 0X4BFFFFFF)
2. SRAM (0X42000000 - 0X4203FFFF)
3. ASIC (0X43000270 - 0X43000274)
4. ALL Device

[return] It returns to a menu screen.

- The above devices will be inspected for engineering purpose.
- A device is selected by the [↑] and [↓] keys on the remote controller, and cleared by the [CR] key.
- On each device screen, a pattern is selected by the [↑] and [↓] keys on the remote controller, and inspection is started by the [CR] key on the remote controller.

21. All memory clear (for Service)

21. All memory clear (for Service)

The clearance of SRAM (application domain)
The clearance of FLASH (application domain)

[NAVI] Inspection is performed.
[return] It returns to a menu screen.

- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.

22. Initialization of a backup variable

22. Initialization of a backup variable

A backup variable is initialized.

Cautions
System reset is carried out after initialization.

[NAVI] A backup variable is initialized.
[return] It returns to a menu screen.

- Back up variables are initialized by the [NAVI] key on the remote controller for system reset.
- The screen will return to the menu screen by the [RETURN] key on the remote controller.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

● Removing the Grille Assy (Fig.1)

- ➡ 1 Remove the two screws and then remove the Holder.
Disconnect the connector.
- ➡ 2 Remove the two screws and then remove the Grille Assy.

● Removing the Case

- ➡ 3 Remove the five screws.(Fig.1)
- ➡ 4 Remove the screw and then remove the Case.(Fig.1)

Note) Inside the product there is a flexible substrate that connects the Case and the Bracket.
Be very careful and do not give it a strong pull when removing the Case, otherwise it may be torn.

- ➡ 5 Remove the four screws. (Fig.2)

Disconnect the connector and then remove the Bracket. (Fig.2)
Remove the Case.(Fig.1)

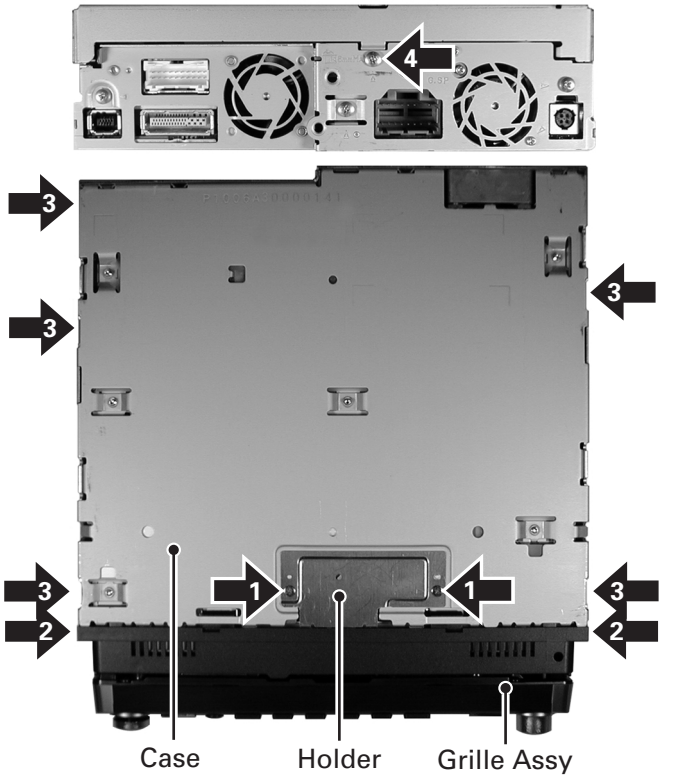


Fig.1

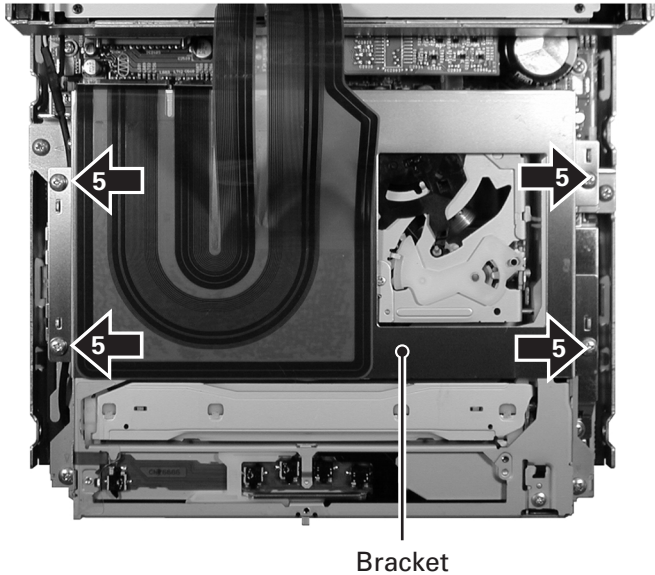


Fig.2

● Removing the DVD Mechanism Module (Fig.3)

- ➡ **1** Remove the four screws.

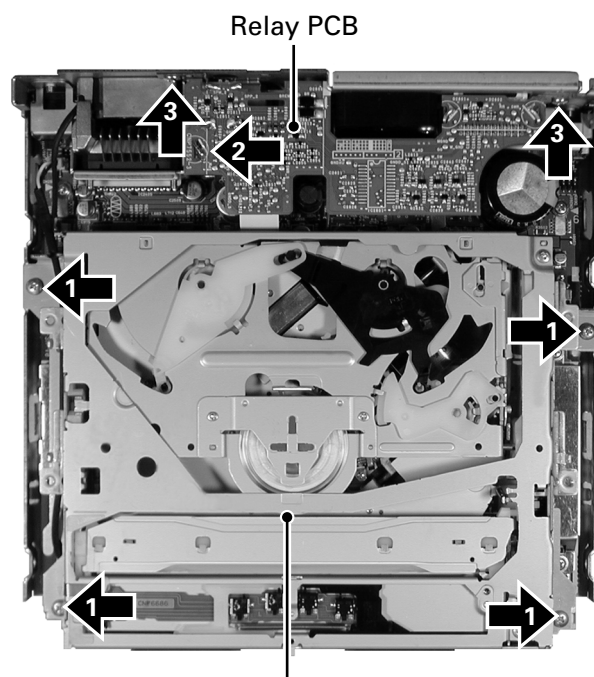
Disconnect the connector and then remove the DVD Mechanism Module.

● Removing the Relay PCB (Fig.3)

- ➡ **2** Straighten the tab at location indicated.

- ➡ **3** Remove the two screws.

Disconnect the connector and then remove the Relay PCB.

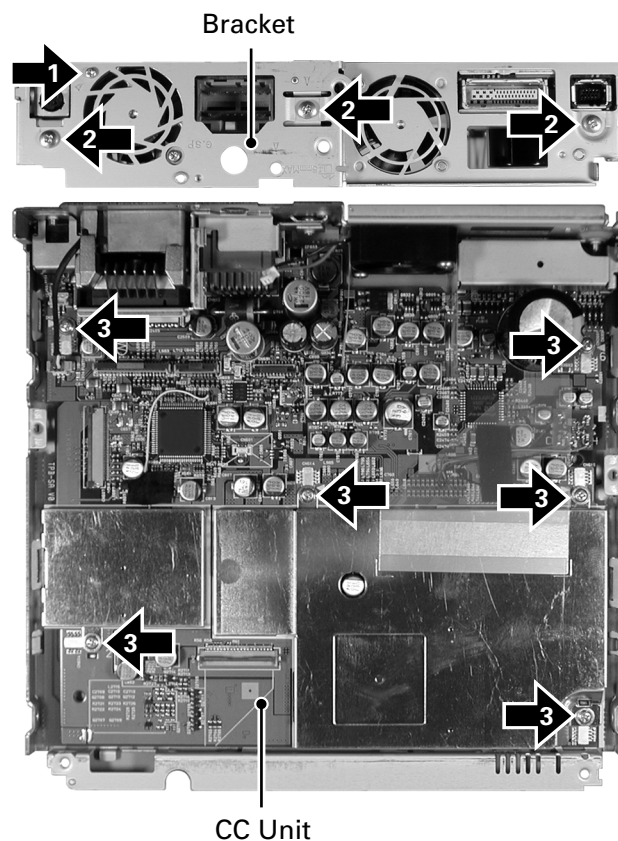


DVD Mechanism Module

Fig.3

● Removing the CC Unit (Fig.4)

- ➡ **1** Remove the screw.
- ➡ **2** Remove the three screws and then remove the Bracket.
- ➡ **3** Remove the six screws and then remove the CC Unit.



CC Unit

Fig.4

● Removing the Case (Fig.5)

- 1** Remove the two screws and then remove the Holder.
- 2** Remove the screw.
- 3** Remove the five screws and then remove the Case.

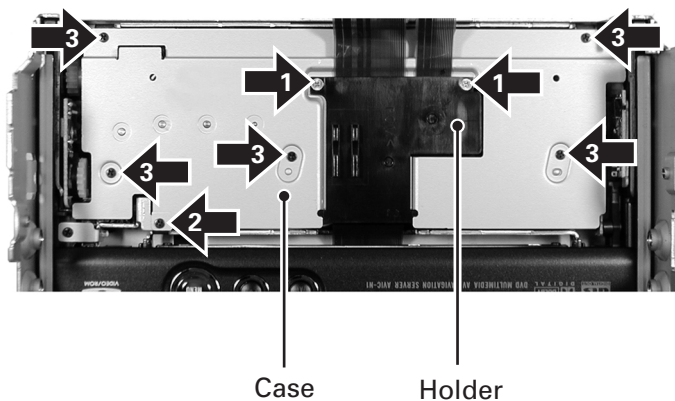


Fig.5

● Removing the Display Assy (Fig.6)

- 1** Remove the screw.
- Disconnect the connector and then remove the Motor Unit.
- 2** Remove the two screws and then remove the two Holders.
- 3** Pull out the Display Assy in the arrow indicated direction.

Note) When reassembling, hold the switch down with tweezers or the like and put the Display Assy back to the Chassis. Otherwise, the switch may be damaged and not function properly.

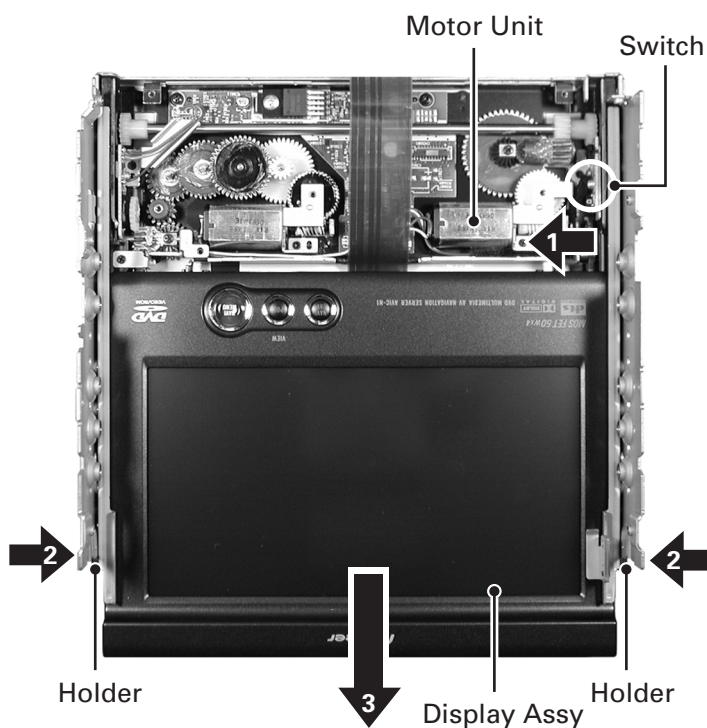


Fig.6

● Removing the Main Unit (Fig.7)

- 1** Remove the screw and then remove the Bracket.
- 2** Remove the four screws and then remove the Shaft Unit.
- 3** Remove the three screws.

Disconnect the connector and then remove the Main Unit.

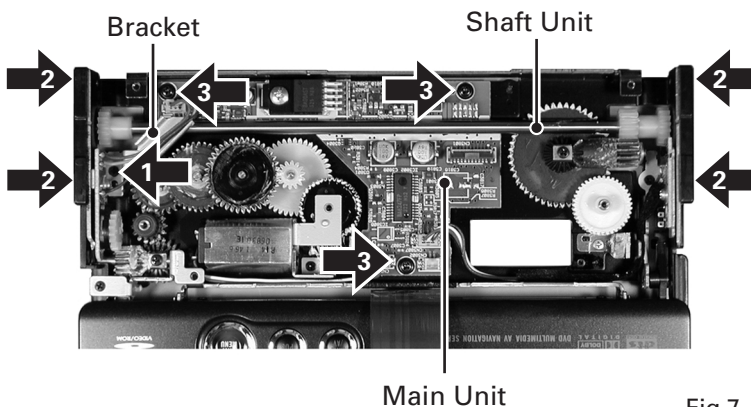


Fig.7

● Removing the Display Assy (Fig.8)

- ➡ **1** Remove the two screws and then remove the Holder.
- ➡ **2** Remove the three screws and then remove the Cover Unit.
- ➡ **3** Remove the four screws.

Disconnect the connector and then remove the Display Assy.

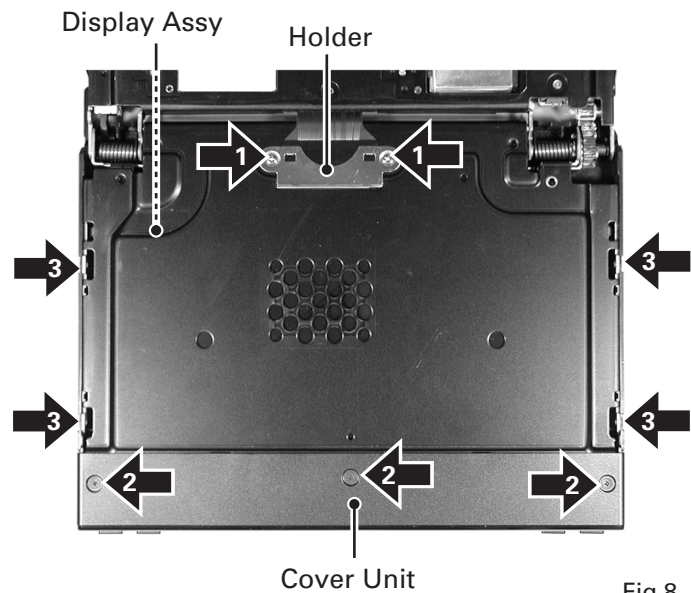


Fig.8

● Removing the Monitor PCB (Fig.9)

- ➡ **1** Straighten the tabs at two locations indicated.
- ➡ **2** Remove the screw.

Disconnect the connector and then remove the Monitor PCB.

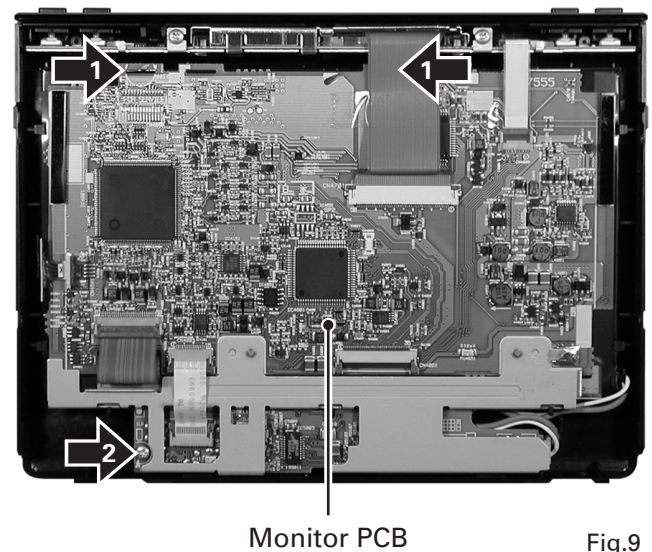


Fig.9

● Removing the Case (Fig.10)

- 1** Remove the nine screws and then remove the Case.

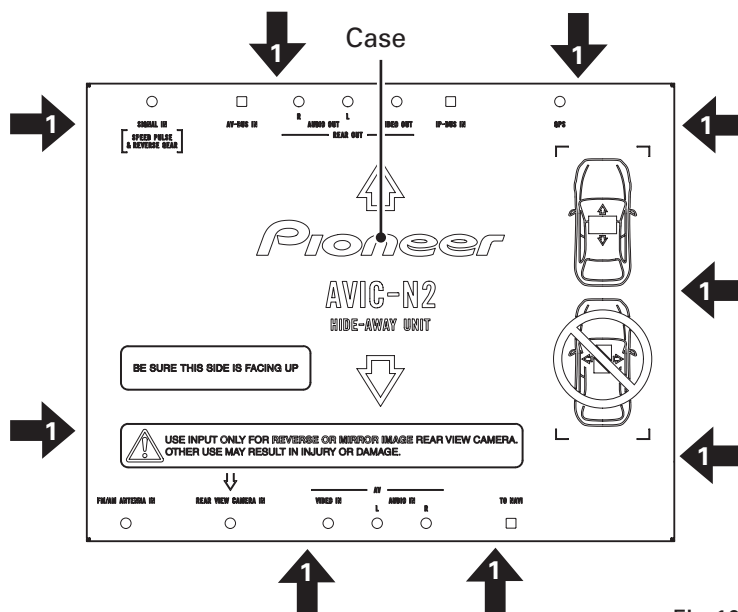
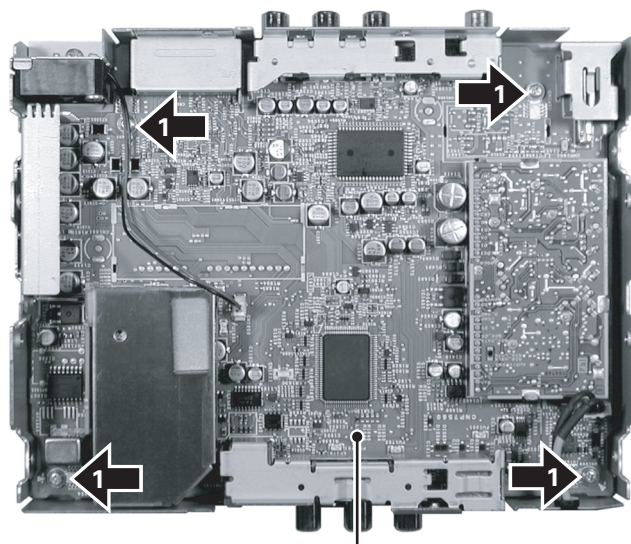


Fig.10

● Removing the Mother Tuner Unit (Fig.11)

- 1** Remove the four screws.

Disconnect the connector and then remove the Mother Tuner Unit.

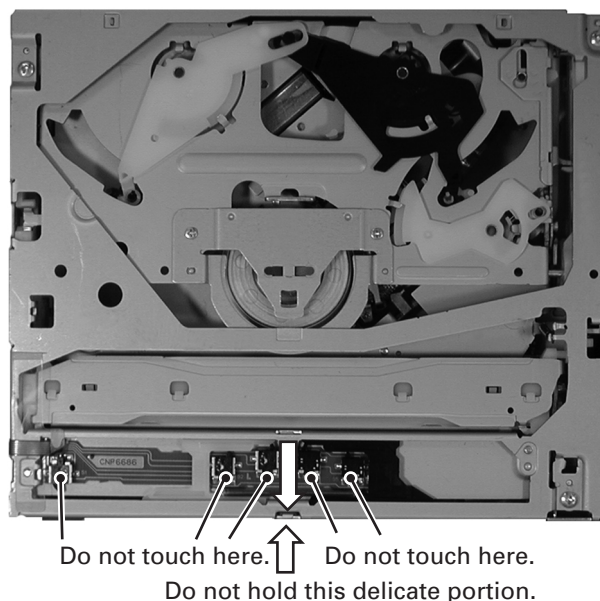


Mother Tuner Unit

Fig.11

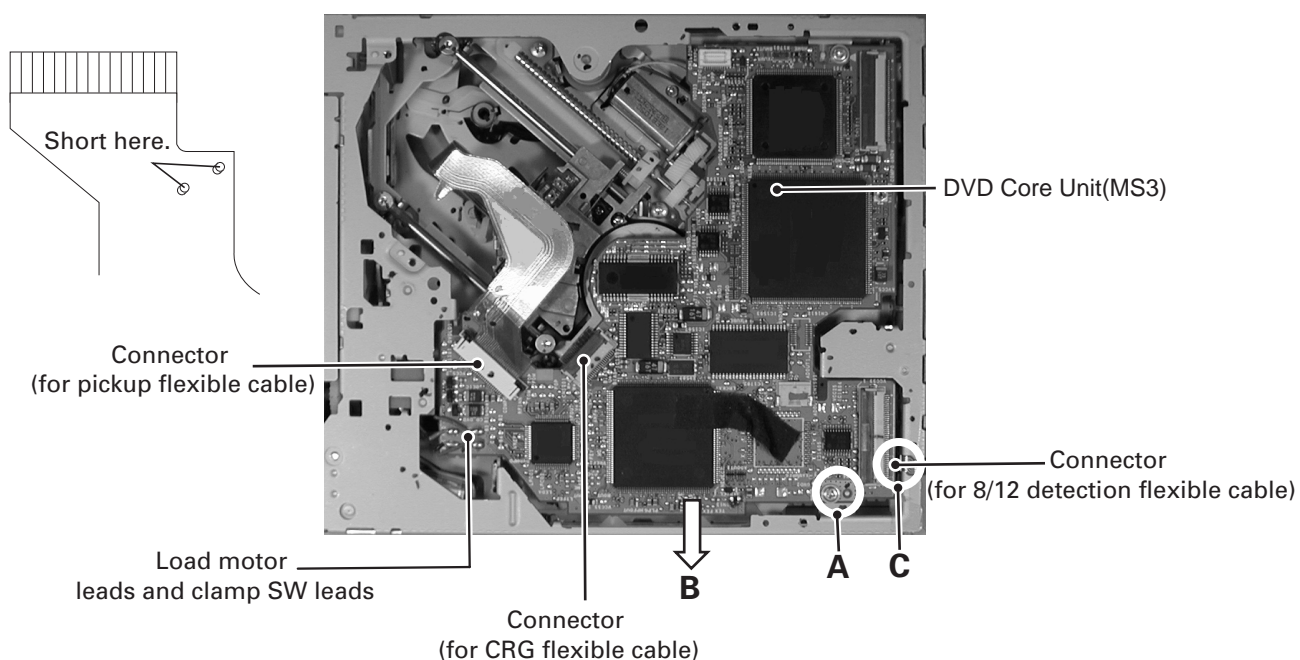
● Precautions on handling the mechanism module

1. Hold the upper and main frames.
2. Do not hold the front portion of the upper frame. It is a delicate part.
3. Do not touch the switches on the top panel.
4. Be careful not to catch the flexible cables.



● Removing the DVD Core Unit(MS3)

1. Set the mechanism to the lock position (disc load standby position).
2. Place the mechanism module upside down.
3. Short the two lands on the pickup flexible cable as shown below.
4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
5. Remove solder from the load motor leads and clamp SW leads.
6. Loosen the two fixing screws. Lift the position A of the DVD Core Unit lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
7. Disconnect the 8/12 detection flexible-cable from the connector.



● Removing the Pickup Unit

1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
2. While holding the pickup case, remove the Skew screw (main).
3. Lifting the end of the pickup rack, slide the main shaft, and remove the Pickup Unit.

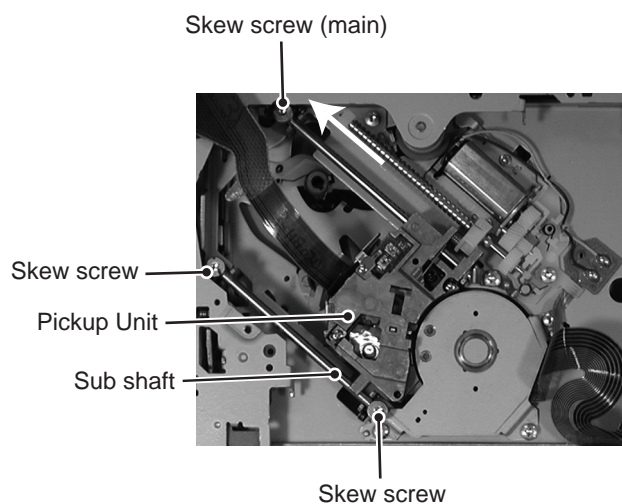
Notes:

Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new Pickup Unit.

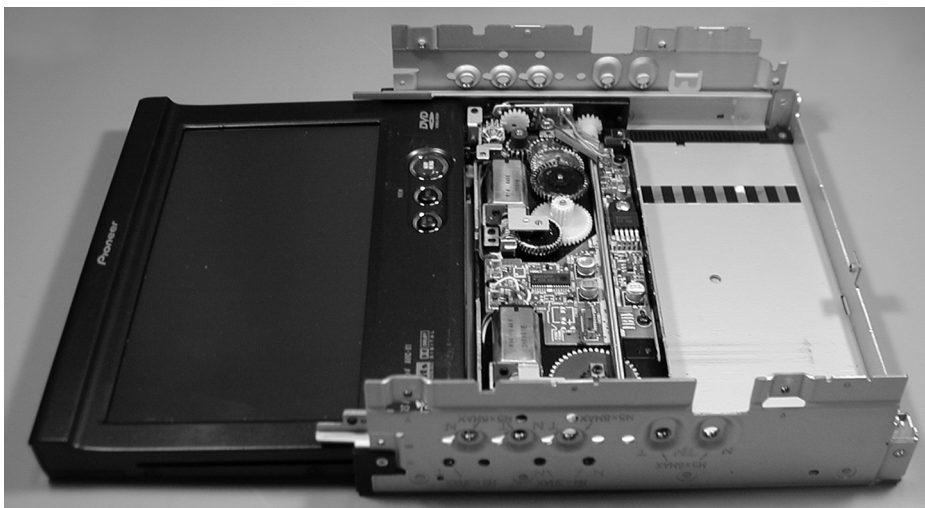
Fix the skew screw with Screw lock (GYL1001) after adjustment.



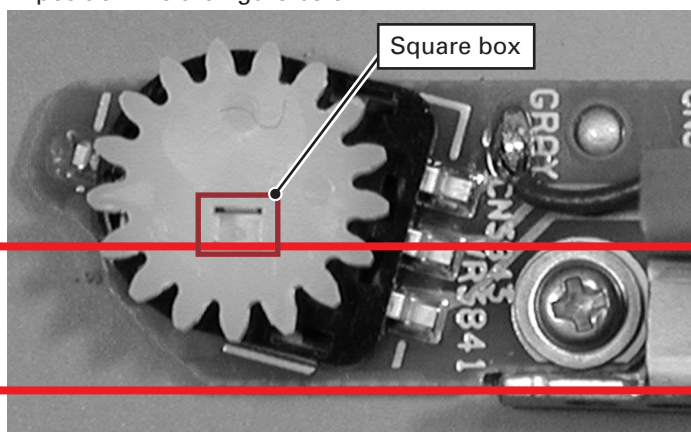
● How to install the Volume Unit fo the Drive Unit

When install the Volume Unit, adjust the positioning of the rotating angle of the gear.

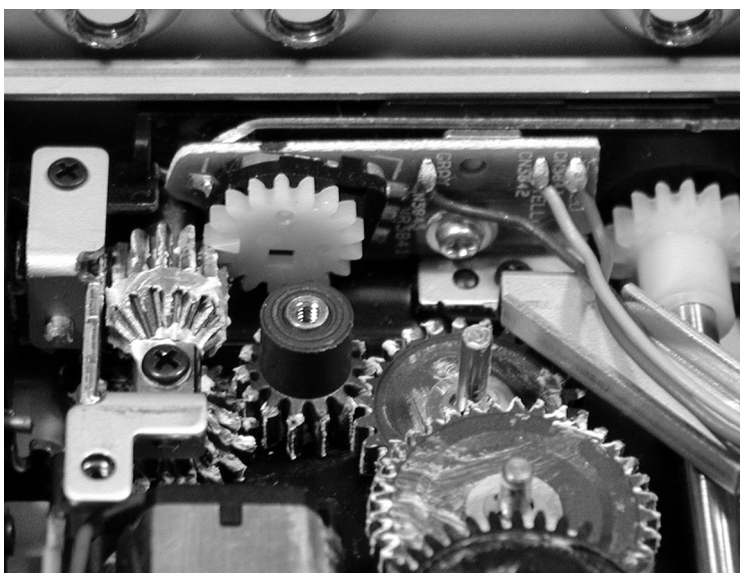
1. Set the Monitor Unit horizontally with the Main Unit of the Drive Unit.



2. When install the gear unit, rotate the gear by hand until the square box of the gear keeps in a horizontal position like the figure below.



*Gap of one teeth is acceptable.



7.1.2 PCB LOCATIONS

A

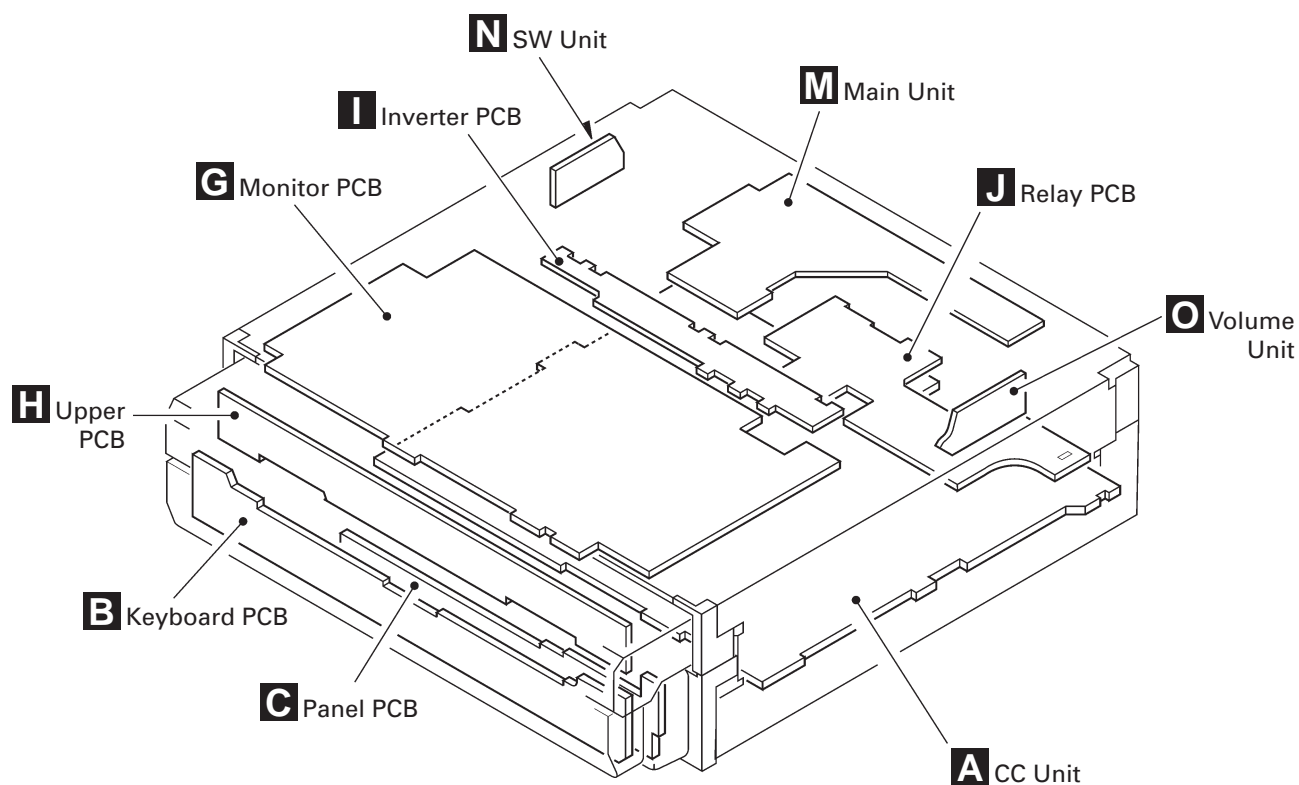
B

C

D

E

F



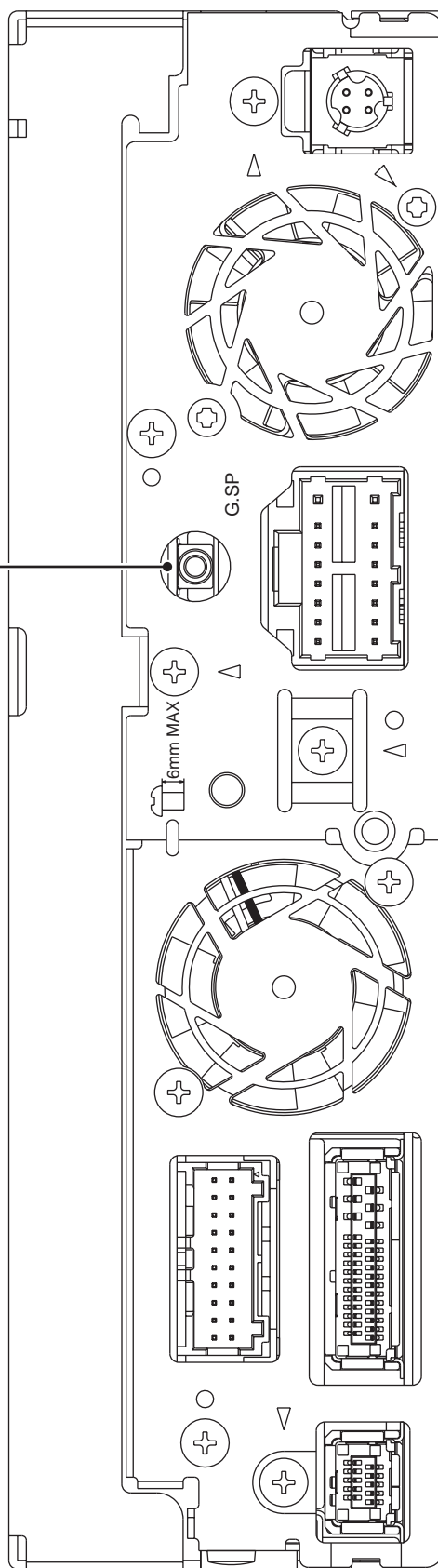
7.1.3 CONNECTOR FUNCTION DESCRIPTION

EXTENSION

| | | | | | | | | | |
|----|----|----|----|----|----|---|---|---|---|
| 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 |
| 19 | 17 | 15 | 13 | 11 | 9 | 7 | 5 | 3 | 1 |

- 1: PRE L
- 2: PRE L GND
- 3: PRE R
- 4: PRE R GND
- 5: RL
- 6: RL GND
- 7: RR
- 8: RR GND
- 9: FL
- 10: FL GND
- 11: FR
- 12: FR GND
- 13: BREM
- 14: WREM SEL
- 15: WREM AN
- 16: WREM GND
- 17: MIC R
- 18: GUIDEON
- 19: MIC L
- 20: MIC GND

GUIDE SPEAKER OUT



TELE ATLAS / DEBUG

| | | | | |
|---|---|---|---|----|
| 2 | 4 | 6 | 8 | 10 |
| 1 | 3 | 5 | 7 | 9 |

- 1: NC
- 2: NC
- 3: GNDD
- 4: CTOEX
- 5: EXTOC
- 6: HYOKA
- 7: CTOTA
- 8: TATOC
- 9: VTA
- 10: TAGND

RGB

| | | | | | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 |

- 1: RETR
- 2: RETL
- 3: ISOGND
- 4: SELR
- 5: SELL
- 6: GNDISO
- 7: SELV
- 8: SELVG
- 9: VST
- 10: VDT
- 11: VCK
- 12: CTOGPS
- 13: GPSTOC
- 14: RETV
- 15: VGND
- 16: RQ
- 17: MUTEVOL/SWACPW
- 18: MUTEAMP
- 19: ASENBO
- 20: RESET
- 21: BSNS
- 22: REM
- 23: MTOH
- 24: HTOM
- 25: HTOP
- 26: PTOH
- 27: SWVDD
- 28: FM85
- 29: SWBUP
- 30: GNDFM

VEHICLE I/F

| | | | | | | | |
|---|---|---|---|----|----|----|----|
| 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 |
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |

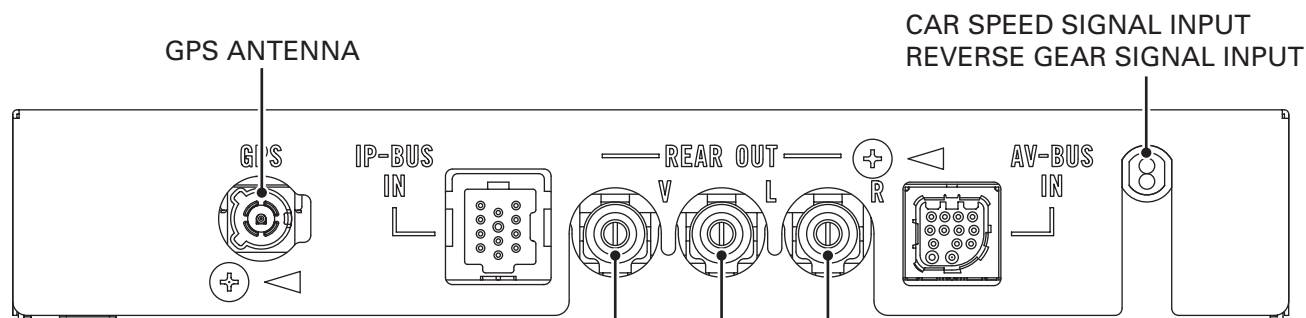
- 1: FL-
- 2: RL-
- 3: FL+
- 4: RL+
- 5: FR-
- 6: RR-
- 7: FR+
- 8: RR+
- 9: P.B.
- 10: VGND
- 11: ACC
- 12: A.ANT
- 13: ILM
- 14: MUTE
- 15: B. UP
- 16: GND

DIGITAL OUT

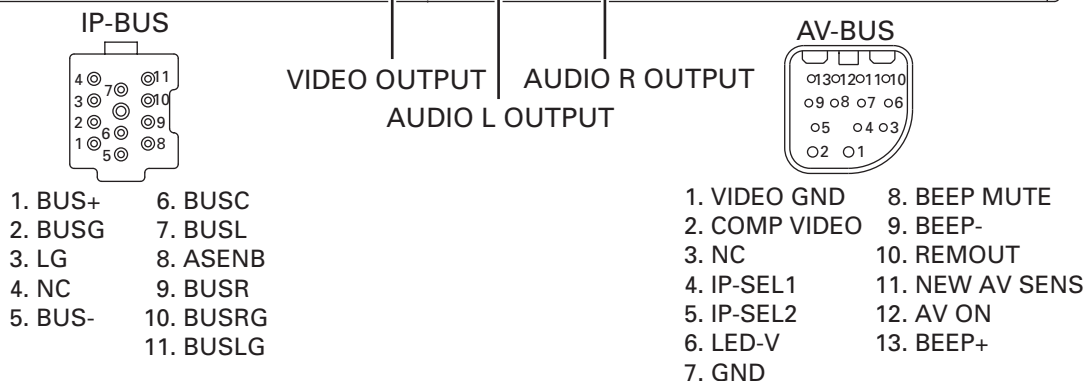
| | |
|----|----|
| 20 | 04 |
| 10 | 03 |

- 1: GND
- 2: GND
- 3: DTEST
- 4: DIGIOUT

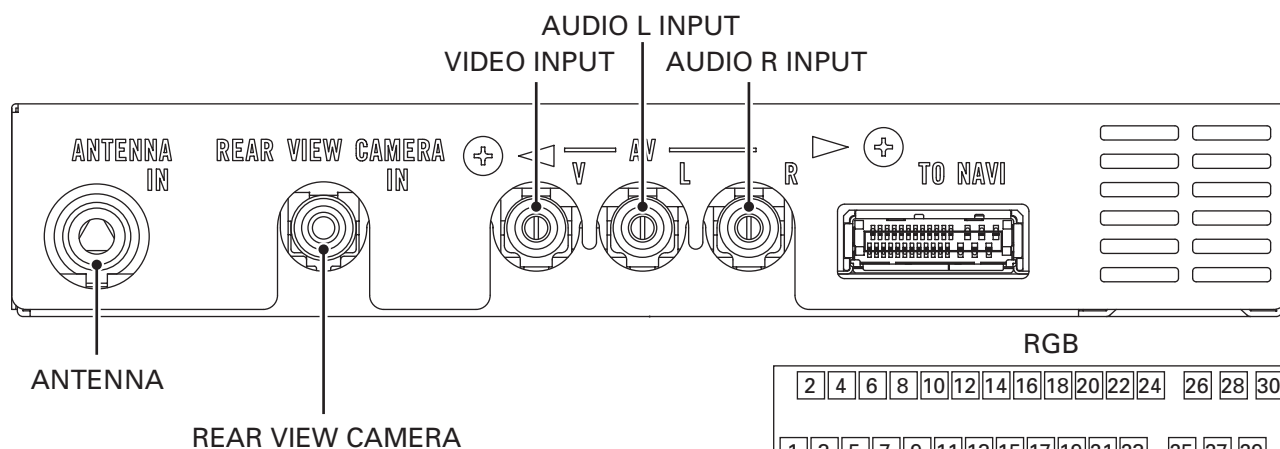
A



B



C



D



E

F

7.2 PARTS

7.2.1 IC

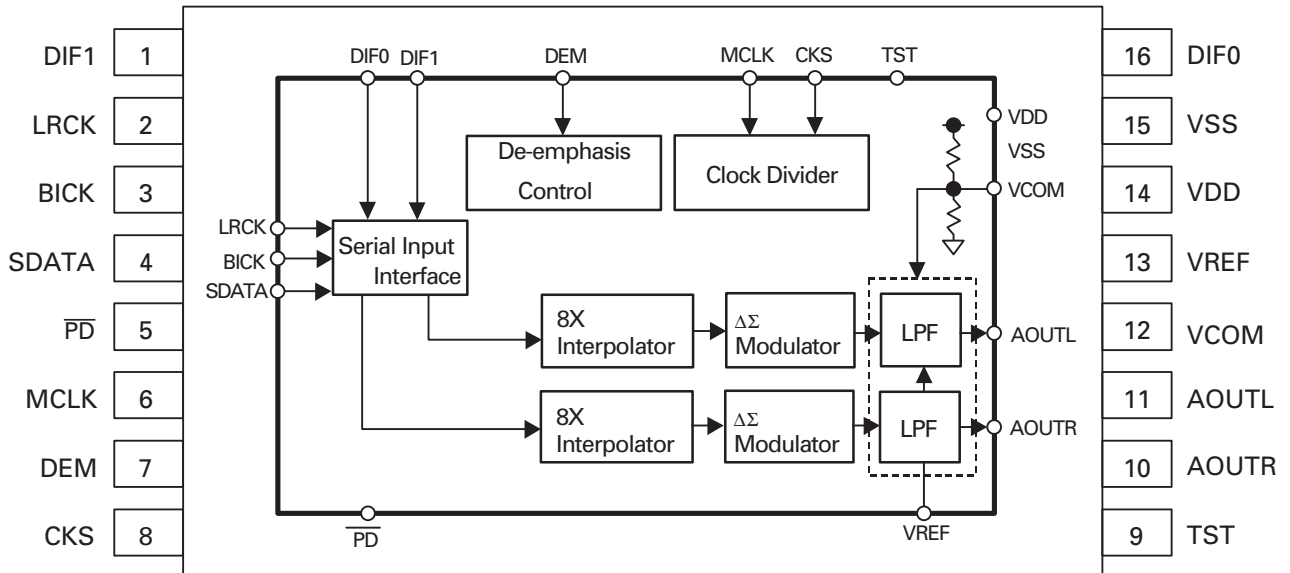
AK4351VT
AK5381VT
HY57V561620CLT-H
K4S561632E-TL75
PEH005A(UC model)
PEH003A(EW model)
PEH006A(UC model)
PEH004A(EW model)

MB86291APFVS-G-DL
S-L2980A33MC-C6S
NJM2561F1
PD6336C
PD5937A
PD3390A
LC72720YVS(EW model)

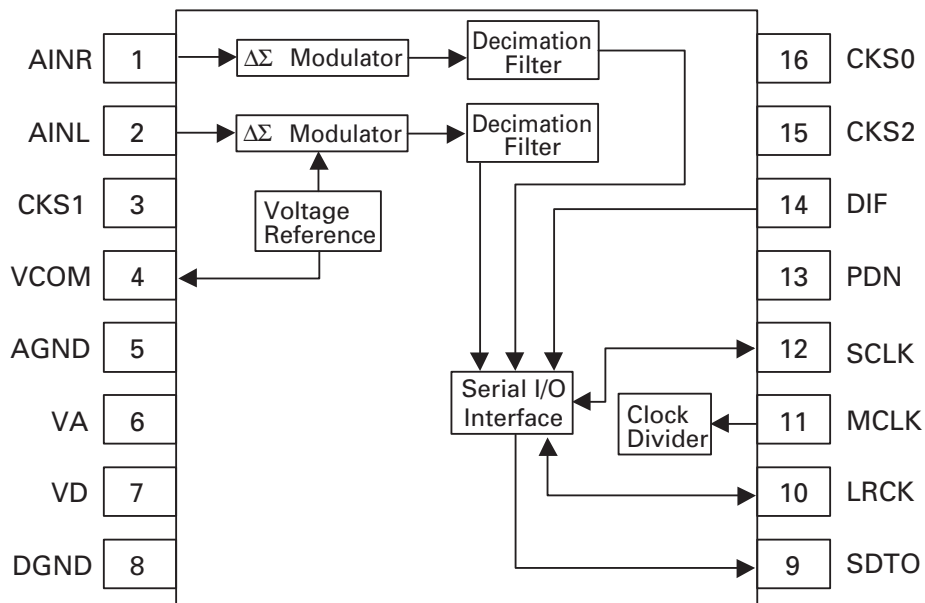
SBX3050-01
PD6473A(UC model)
PD6472A(EW model)
PD6340A
PE5413B
S-80835CNNB-B8U
SI6544DQ
TK15404AMI

S-93C46BR0I-J8T1
R1224N102H
HA12240FP
S-L2980A50MC-C7J
S-812C33AMC-C2N
PE5412B(UC model)
PE5411B(EW model)

AK4351VT



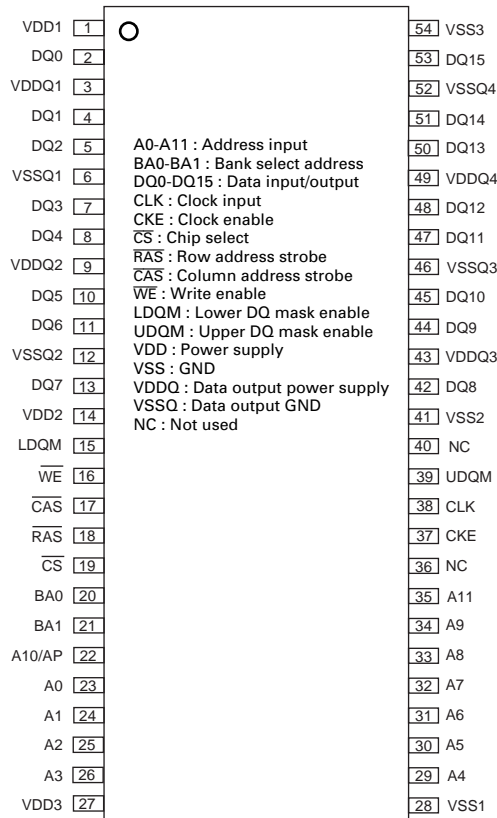
AK5381VT



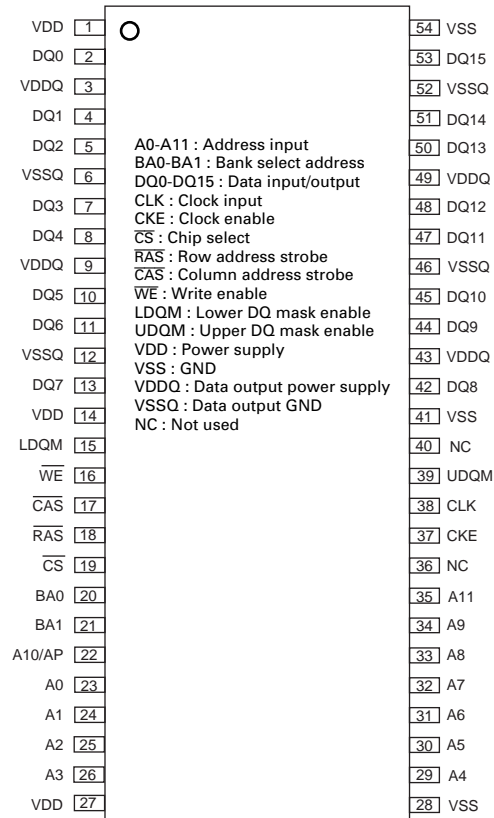
IC's marked by * are MOS type.

Be careful in handling them because they are
very liable to be damaged by electrostatic induction.

* HY57V561620CLT-H

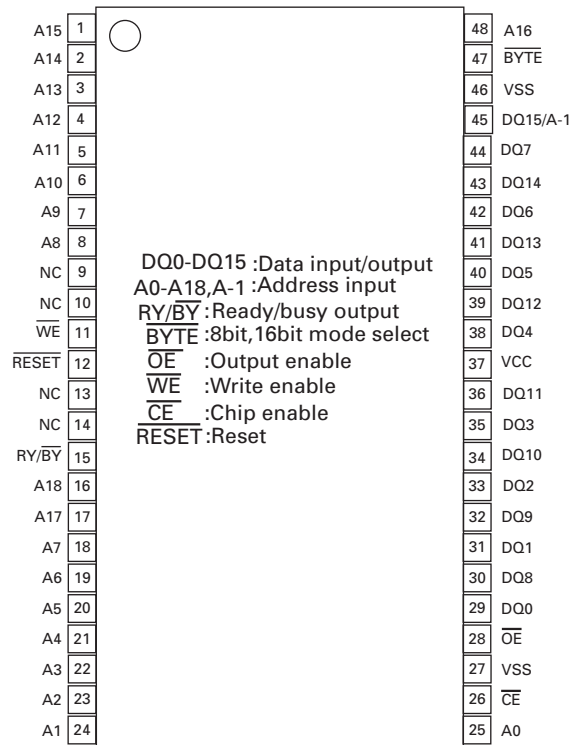


* K4S561632E-TL75



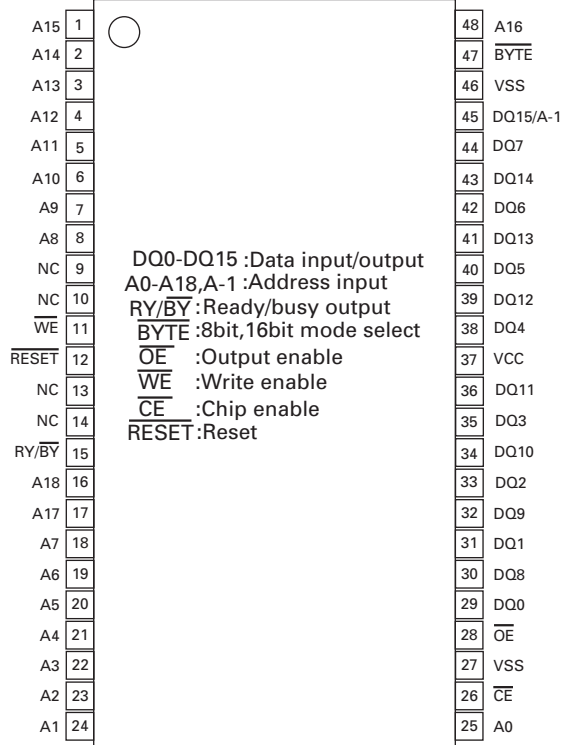
* PEH005A(UC model)

* PEH003A(EW model)



* PEH006A(UC model)

* PEH004A(EW model)



* PD6336C

● Pin Arrangement Chart

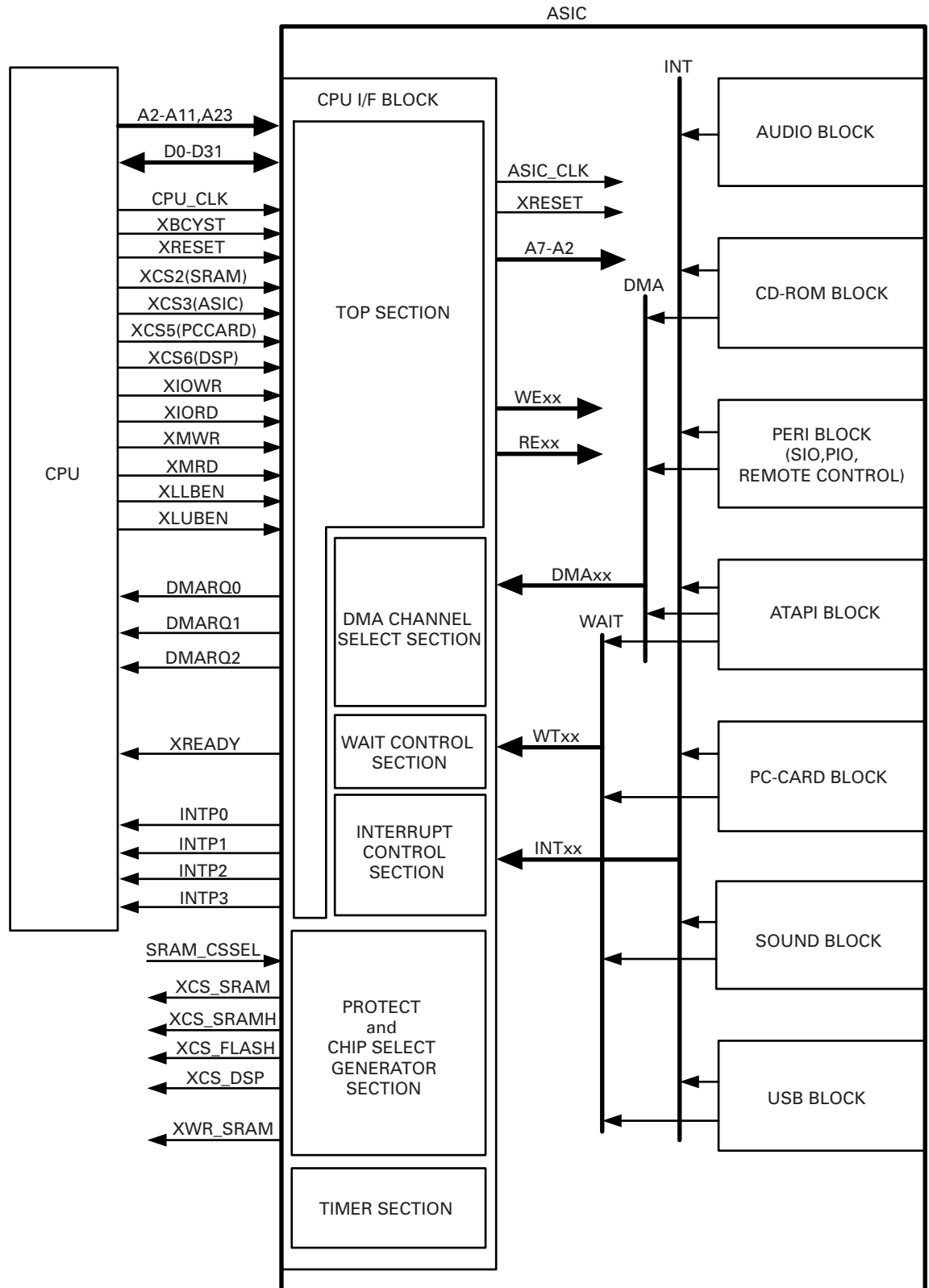
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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 1 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 |
| 2 | 85 | 160 | 159 | 158 | 157 | 156 | 155 | 154 | 153 | 152 | 151 | 150 | 149 | 148 | 147 | 146 | 145 | 144 | 143 | 142 | 63 |
| 3 | 86 | 161 | 228 | 227 | 226 | 225 | 224 | 223 | 222 | 221 | 220 | 219 | 218 | 217 | 216 | 215 | 214 | 212 | 212 | 141 | 62 |
| 4 | 87 | 162 | 229 | 288 | 287 | 286 | 285 | 284 | 283 | 282 | 281 | 280 | 279 | 278 | 277 | 276 | 275 | 274 | 211 | 140 | 61 |
| 5 | 88 | 163 | 230 | | | | | | | | | | | | | | | 273 | 210 | 139 | 60 |
| 6 | 89 | 164 | 231 | | | | | | | | | | | | | | | 272 | 209 | 138 | 59 |
| 7 | 90 | 165 | 232 | | | | | | | | | | | | | | | 271 | 208 | 137 | 58 |
| 8 | 91 | 166 | 233 | | | | | | | | | | | | | | | 270 | 207 | 136 | 57 |
| 9 | 92 | 167 | 234 | | | | | | | | | | | | | | | 269 | 206 | 135 | 56 |
| 10 | 93 | 168 | 235 | | | | | | | | | | | | | | | 268 | 205 | 134 | 55 |
| 11 | 94 | 169 | 236 | | | | | | | | | | | | | | | 267 | 204 | 133 | 54 |
| 12 | 95 | 170 | 237 | | | | | | | | | | | | | | | 266 | 203 | 132 | 53 |
| 13 | 96 | 171 | 238 | | | | | | | | | | | | | | | 265 | 202 | 131 | 52 |
| 14 | 97 | 172 | 239 | | | | | | | | | | | | | | | 264 | 201 | 130 | 51 |
| 15 | 98 | 173 | 240 | | | | | | | | | | | | | | | 263 | 200 | 129 | 50 |
| 16 | 99 | 174 | 241 | | | | | | | | | | | | | | | 262 | 199 | 128 | 49 |
| 17 | 100 | 175 | 242 | | | | | | | | | | | | | | | 261 | 198 | 127 | 48 |
| 18 | 101 | 176 | 243 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 196 | 125 | 47 |
| 19 | 102 | 177 | 244 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 124 | 46 |
| 20 | 103 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 124 | 45 |
| 21 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 44 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |

TOP VIEW

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|----------|------------|-----------|------------|-----------|----------|------------|------------|----------|-----------|-----------|-----------|
| VSS | PIO27 | DSP_BCLKI | PIO25 | PIO24 | PIO22 | OVD23 | DSP_BDI | DSP_BFSI | DSP_XHINT | DSP_HRDY | OVS56 | DSP_BFSO | DSP_BCLKO | XCS_SRAMH | OVD22 | DSP_XRS | DSP_ATTONT | D31 | CD_MCLK | ADC_GONT2 | VSS |
| PIO29 | PIO28 | PIO26 | D4 | D6 | OVS57 | D10 | XCS_DSP | D14 | PIO23 | D18 | D20 | DSP_BDO | D24 | PIO_OUT | OVS55 | TEST1 | CD_LRCLK | CD_BLK | ADC_GONT0 | ADC_GONT1 | ADC_DATA |
| USBXPWRN | XCS_FLASH | D2 | D3 | D5 | D8 | D9 | D12 | D13 | D16 | D17 | D19 | D22 | D23 | D26 | D27 | D29 | D30 | A2 | A3 | ADC_BCLK | ADC_LRCLK |
| USBXOVRCLR | D0 | D1 | VSS | VDD | D7 | VDD | D11 | VSS | D15 | VDD | VDD | D21 | VSS | D25 | VDD | D28 | VSS | VSS | A4 | ADC_MCLK | TEST4 |
| UVD1M | XMIRD | XMWR | VSS | | | | | | | | | | | | | | | VDD | A5 | A6 | EXTAL1 |
| UVD1P | USBPWRN | XLLEN | XLUBEN | | | | | | | | | | | | | | | VPDP | A7 | A8 | OVS54 |
| UVD2M | XIOWR | XIORD | VDD | | | | | | | | | | | | | | | VDD | A9 | A10 | XTAL1 |
| UVD2P | NC | NC | NC | | | | | | | | | | | | | | | A11 | A12 | TEST2 | TEST3 |
| USB_CLK | NC | NC | VSS | | | | | | | | | | | | | | | VSS | PC_READY | DAC_MCLK | DAC_LRCLK |
| XCS_SRAM | XREADY | XBCYST | VDD | | | | | | | | | | | | | | | PC_XVS2 | PC_RESET | DAC_BCLK | DAC_DATA |
| XWR_SRAM_SRAM_CSEL | | | | | | | | | | | | | | | | | | VDD | PC_WXT | PC_XREG | PIO21 |
| IR_RX | PIO30 | XCS3 | XCS5 | | | | | | | | | | | | | | | VDD | PC_BVD1 | PC_WP | PC_A0 |
| TEST0 | XTST | DREQ0 | VSS | | | | | | | | | | | | | | | VDD | PC_BVD2 | PC_XCD2 | OVS53 |
| XTAL0 | SMCK | INT3 | VDD | | | | | | | | | | | | | | | VSS | PC_XCD1 | PC_XCE1 | PIO19 |
| MST | XSM | INT2 | INT1 | | | | | | | | | | | | | | | VDD | PC_XCE2 | PIO15 | PIO18 |
| EXTAL0 | GDC_WT | INT0 | VDD | | | | | | | | | | | | | | | PC_XOE | PC_XVS1 | PIO13 | PIO16 |
| UART9_TXD | UART9_RXD | ATA_DA0 | VSS | VSS | ATA_XDIOR | VDD | ATA_DD1 | VSS | ATA_DD5 | VDD | VDD | ATA_DD10 | VSS | ATA_DD14 | VDD | ATA_XCS0 | | VSS | PC_XIORD | PIO11 | PIO12 |
| UART8_TXD | UART8_RXD | ATA_DA1 | ATA_INT | ATA_XDMACK | ATA_IORDY | ATA_DMARQ | ATA_DD0 | ATA_DD3 | ATA_DD4 | ATA_DD7 | ATA_DD8 | ATA_DD9 | ATA_DD12 | ATA_DD13 | ATA_DA2 | ATA_XCS1 | PC_XPWR | VSS | PC_XIOWR | PIO9 | PIO10 |
| UART7_TXD | UART7_RXD | UART6_RXD | OVS50 | UART4_RXD | XRESET | ATA_XDIOW | UART3_RXD | ATA_DD2 | UART1_RXD | ATA_DD6 | ATA_XRESET | UART_XDCD | ATA_DD11 | UART_XRI | ATA_DD15 | UART1_XDTR | PC_XUBUF | PC_XLBUF | PC_XWE | PIO7 | PIO6 |
| VSS | UART6_TXD | UART5_RXD | UART5_TXD | UART4_TXD | UART3_TXD | OVD20 | UART2_TXD | UART2_RXD | UART1_TXD | A23 | CPU_CLK | OVS51 | UART1_XCTS | UART_XDSR | OVD21 | UART1_XRTS | PIO0 | PIO1 | OVS52 | PIO5 | PIO4 |

TOP VIEW

● Block Diagram Chart

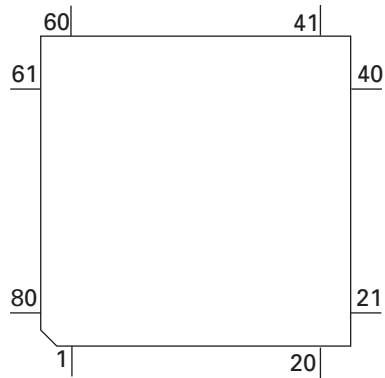


● Pin Functions(PD5937A)

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|-----------|-----|--|
| 1 | ARMSW | O | LED light output |
| 2 | NFANCNT | O | CC Unit Fan motor control output |
| 3 | AFANCNT | O | Power amplifier IC Fan motor control output |
| 4 | ILMPWR | O | Illumination ON output |
| 5 | REAON | O | Illumination color select output, when the rear monitor is ON (H : Green, L : Amber) |
| 6 | CNVSS | I | Connect to GND |
| 7 | DISC | I | Disc detect input |
| 8 | EJECT | I | Disc eject input |
| 9 | RESET | I | Reset input |
| 10 | XOUT | O | Crystal oscillator connection pin |
| 11 | GND | | GND |
| 12 | XIN | I | Crystal oscillator connection pin |
| 13 | VDD | | VDD |
| 14 | INT | I | Connect to VDD |
| 15 | BSENS | I | Backup sense input |
| 16 | ASENS | I | ACC sense input |
| 17 | FDSEN | I | Grille detach sense input |
| 18 | RST3 | O | Navigation control reset output |
| 19 | AUPW | O | Audio power supply control output |
| 20 | DRAMPW | O | Navigation control DRAMPW output |
| 21 | BEEP | O | BEEP output |
| 22 | RXN | I | Data input from Navigation (UART) |
| 23 | TXIN | O | Data output to Navigation (UART) |
| 24 | TSO | O | Data output to Hideaway Unit (UART) |
| 25 | TSI | I | Data input from Hideaway Unit (UART) |
| 26 | TSCK | I | Test program clock input |
| 27 | BUSY | | Not used |
| 28 | CCON | O | Navigation control CCON output |
| 29 | XCCSTB | I | Stand-by OK of the CC Unit input |
| 30 | CPUWDT | I | Watch dog timer input |
| 31 | IRQPW | O | Navigation control IRQPW output |
| 32 | RSTOUT | O | Navigation control RSTOUT output |
| 33 | MUTEPE | | Not used |
| 34 | MUTNS | O | Mute output at the time of MIX |
| 35 | SELL | O | Navigation voice Lch MIX control output |
| 36 | SELR | O | Navigation voice Rch MIX control output |
| 37 | VFSEL | O | Front monitor source select output (H : Hideaway Unit, L : MS3) |
| 38 | VRSEL | O | Rear monitor source select output (H : Hideaway Unit, L : MS3) |
| 39 | VSEL3 | | Not used |
| 40 | DATA | | Not used |
| 41 | CLK | | Not used |
| 42 | CS | | Not used |
| 43 | AMPSTB | O | Amplifier stand-by output |
| 44 | ILMSEL | O | Illumination color select output (H : Amber, L : Green) |
| 45 | ILMDIM | O | Sub display DIM power supply control output |
| 46 | DSENS | I | Detach sense input |
| 47 | ILMSENS | I | Illumination sense input |
| 48 | PBSENS | I | Parking brake sense input |
| 49 | TELIN | I | TEL mute input |
| 50 | ASENBO | O | ASENS output |
| 51 | MUTESO | O | Mute output |
| 52 | LIFTPUL | I | Lift pulse input |
| 53 | MTRS | O | Flap motor speed control output |
| 54 | MTRPW | O | Flap motor control power supply output |
| 55 | MTR1 | O | Flap angle motor control signal output |
| 56 | MTR1 | O | Flap position motor control signal output |
| 57 | MTRSEL | O | Flap motor control output |
| 58 | ANGLE0SW | I | Flap angle 0 sense input |
| 59 | LIFTSW | I | Lift sense input |
| 60 | SENSE5 | O | Pulse power supply control output |
| 61 | ANTPW | O | Auto antenna power output |
| 62 | WCONT | I | Wired remote control SEL input |
| 63 | TESTIN | I | Test mode input |
| 64 | TIMEOUT | I | Timeout input |
| 65-67 | SIMUKE0-2 | I | Model select input0-2 |
| 68 | 51MUTE | O | 5.1 ch mute output |

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|----------|-----|-------------------------------------|
| 69 | NC | | Not used |
| 70 | WREMIN | I | Wired remote control AD input |
| 71 | ATEMPI | | Not used |
| 72 | ANGLE | I | Flap angle sense input |
| 73 | NTEMP1 | I | CC Unit temperature input |
| 74 | NC | | Not used |
| 75 | AVSS | | A/D GND |
| 76 | NC | | Not used |
| 77 | AVREF | | A/D converter reference voltage |
| 78 | AVCC | | A/D power supply |
| 79 | NC | | Not used |
| 80 | MUTEGU | O | TELIN/GUIDE interrupt notice output |

* PD5937A



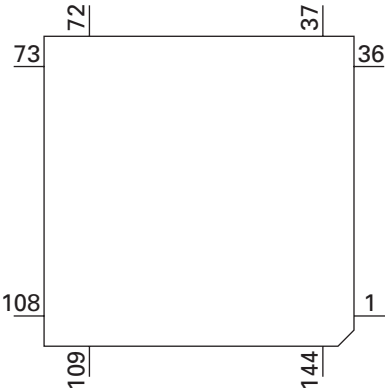
●Pin Functions(PD3390A)

| Pin No. | Pin Name | I/O | Format | Function and Operation |
|---------|----------|-----|--------|--|
| 1 | VCC0 | | | Power supply (3.3V) |
| 2 | VSS0 | | | GND |
| 3 | TXD2 | I/O | | SIO2 Transmission data input / output |
| 4 | RXD2 | I/O | | SIO2 Reception data input / output |
| 5 | TXD1 | O | C | SIO1 Transmission data output |
| 6 | RXD1 | I | | SIO1 Reception data input |
| 7 | TXD0 | O | C | SIO0 Transmission data output |
| 8 | RXD0 | I | | SIO0 Reception data input |
| 9 | SPEED | I | | SP I/F input |
| 10 | ADCSB | O | C | AD I/F output |
| 11 | ADSCK | O | C | AD I/F output |
| 12 | ADTXD | O | C | AD I/F output |
| 13 | ADRXD | I | | AD I/F input |
| 14 | ADSRX | I | | AD I/F input |
| 15 | ADIO0 | I/O | | AD I/F input / output |
| 16 | ADIO1 | I/O | | AD I/F input / output |
| 17 | ADIO2 | I/O | | AD I/F input / output |
| 18 | VCC1 | | | Power supply (3.3V) |
| 19 | VSS1 | | | GND |
| 20 | PWM | O | | PWM signal output |
| 21 | PLINT | I | | PLL I/F input |
| 22 | PLCE | O | C | PLL I/F output |
| 23 | PLSCK | O | C | PLL I/F output |
| 24 | PLTX | O | C | PLL I/F output |
| 25 | PLRX | I | | PLL I/F input |
| 26 | PLIO0 | I/O | | PLL I/F input / output |
| 27 | PLIO1 | I/O | | PLL I/F input / output |
| 28 | PLIO2 | I/O | | PLL I/F input / output |
| 29 | DDINT | I | | Darc I/F input |
| 30 | DDCE | O | C | Darc I/F output |
| 31 | DDSCK | O | C | Darc I/F output |
| 32 | DDTX | O | C | Darc I/F output |
| 33 | DDRFX | I | | Darc I/F input |
| 34 | DDIO0 | I/O | | Darc I/F input / output |
| 35 | DDIO1 | I/O | | Darc I/F input / output |
| 36 | DDIO2 | I/O | | Darc I/F input / output |
| 37 | TIOA0 | I/O | | Parallel input / output |
| 38 | TIOA1 | I/O | | Parallel input / output |
| 39 | TIOB0 | I/O | | Parallel input / output |
| 40 | TIOB1 | I/O | | Parallel input / output |
| 41 | VCC2 | | | Power supply (3.3V) |
| 42 | VSS2 | | | GND |
| 43-53 | A19-9 | I/O | | Address bus input / output |
| 54 | VCC3 | | | Power supply (3.3V) |
| 55 | VSS3 | | | GND |
| 56-64 | A8-0 | I/O | | Address bus input / output |
| 65 | VCC4 | | | Power supply (3.3V) |
| 66 | VSS4 | | | GND |
| 67-82 | D0-15 | I/O | | Address bus input / output |
| 83 | VCC5 | | | Power supply (3.3V) |
| 84 | VSS5 | | | GND |
| 85 | WRHB | I/O | | Upper data write strobe input / output |
| 86 | WRLB | I/O | | Lower data write strobe input / output |
| 87 | RDB | I/O | | Read data strobe input / output |
| 88 | CS2B | I/O | | Chip select aria 1 for external storage input / output |
| 89 | CS0B | I/O | | Chip select aria 0 for ROM input / output |
| 90 | VCC6 | | | Power supply (3.3V) |

| Pin No. | Pin Name | I/O | Format | Function and Operation |
|---------|----------|-----|--------|--|
| 91 | VSS6 | | | GND |
| 92 | TEST2 | | | Test mode |
| 93 | CKOEB | I | | CK output enable input |
| 94 | CK | O | C | CPU clock output |
| 95 | CS5B | O | C | DRAM low address strobe output |
| 96 | CS3B | O | C | DRAM column address strobe output |
| 97 | CS1B | O | C | DRAM column address upper byte strobe output |
| 98 | RTCVSS1 | | | Power supply (3.3V) |
| 99 | SRAMB | I | | Backup memory select input |
| 100 | STANBYB | I | | Stand by signal input |
| 101 | RTCVSS0 | | | GND |
| 102 | XRTCIN | I | | Sub crystal oscillator input (RTC) |
| 103 | XRTCOUT | O | C | Sub crystal oscillator output (RTC) |
| 104 | RTCVCC | | | Power supply (3.3V) |
| 105 | PCKSEL0 | I | | Processor clock select input |
| 106 | PCKSEL1 | I | | Processor clock select input |
| 107 | CCKSEL | I | | CRCK signal select input |
| 108 | CCKDIR | I/O | | Carrier clock direct input / inverter amp output |
| 109 | CCKVCC | | | Power supply (3.3V) |
| 110 | CRCK | I | | Carrier clock input |
| 111 | CCKGND | | | GND |
| 112-118 | PC0-6 | I/O | | Parallel input / output |
| 119 | NMI | | | Connect to VCC |
| 120 | RESETB | I | | System reset input |
| 121 | MSTRSTB | I | | Test reset input |
| 122 | TEST0 | I | | Test mode input |
| 123 | TEST1 | I | | Test mode input |
| 124 | REFSEL | I | | GPS reference clock select input |
| 125 | REFCK | I | | Reference clock input |
| 126 | VCC7 | | | Power supply (3.3V) |
| 127 | VSS7 | | | GND |
| 128 | XAUXIN | I | | Sub crystal oscillator output input (AUX) |
| 129 | XAUXOUT | O | C | Sub crystal oscillator output (AUX) |
| 130-133 | PIN0-3 | I | | Parallel input |
| 134-137 | PIO4-7 | I/O | | Parallel input / output |
| 138 | TXD3 | I/O | | SI03 Transmission data input / output |
| 139 | RXD3 | I/O | | SI03 Reception data input / output |
| 140 | BOWWOWB | O | C | Watch dog timer output |
| 141 | IFDIR | I/O | | IF direct input / IF inverter amp output |
| 142 | IFVCC | | | Power supply (3.3V) |
| 143 | IF | I | | IF input |
| 144 | IFGND | I | | IF amp GND input |

* PD3390A

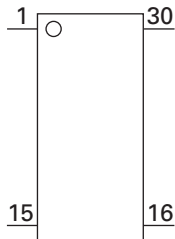
| Format | Meaning |
|--------|---------|
| C | C MOS |



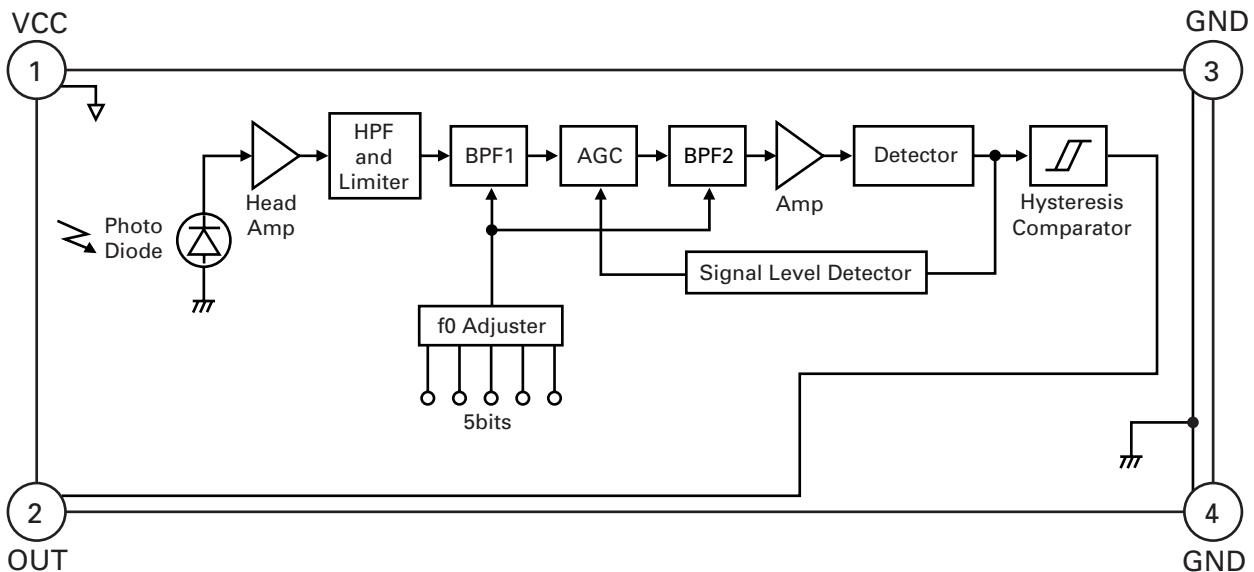
●Pin Functions(LC72720YVS : EW model)

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|----------|-----|---|
| 1 | VREF | O | Reference voltage output |
| 2 | MPXIN | I | Base band (multiplexed) signal input |
| 3 | Vdda | | Analog system power supply (+5V) |
| 4 | NC | | Not used |
| 5 | Vssa | | Analog system GND |
| 6 | FLOUT | O | Sub carrier output (filter output) |
| 7 | CIN | I | Sub carrier input (comparator input) |
| 8 | NC | | Not used |
| 9 | T1 | I | Test input (connect to GND) |
| 10 | T2 | I | Test input (stand-by control) |
| 11 | T3 | O | RDS clock output |
| 12 | NC | | Not used |
| 13 | T4 | O | RDS data output |
| 14 | T5 | O | Soft-decision control data output |
| 15 | XOUT | O | Crystal oscillator output |
| 16 | XIN | I | Crystal oscillator input |
| 17 | Vddd | | Digital system power supply (+5V) |
| 18 | Vssd | | Digital system GND |
| 19 | NC | | Not used |
| 20 | T6 | O | Error status, regenerated carrier and error block count outputs |
| 21 | T7 | O | Error correction status, SK detection and error block count outputs |
| 22 | SYNC | O | Block synchronization detection output |
| 23 | NC | | Not used |
| 24 | RDS-ID | O | RDS detection output |
| 25 | DO | O | Data output |
| 26 | CL | I | Clock input |
| 27 | NC | | Not used |
| 28 | DI | I | Data input |
| 29 | CE | I | Chip enable input |
| 30 | SYR | I | Synchronization and RAM address reset input |

* LC72720YVS(EW model)

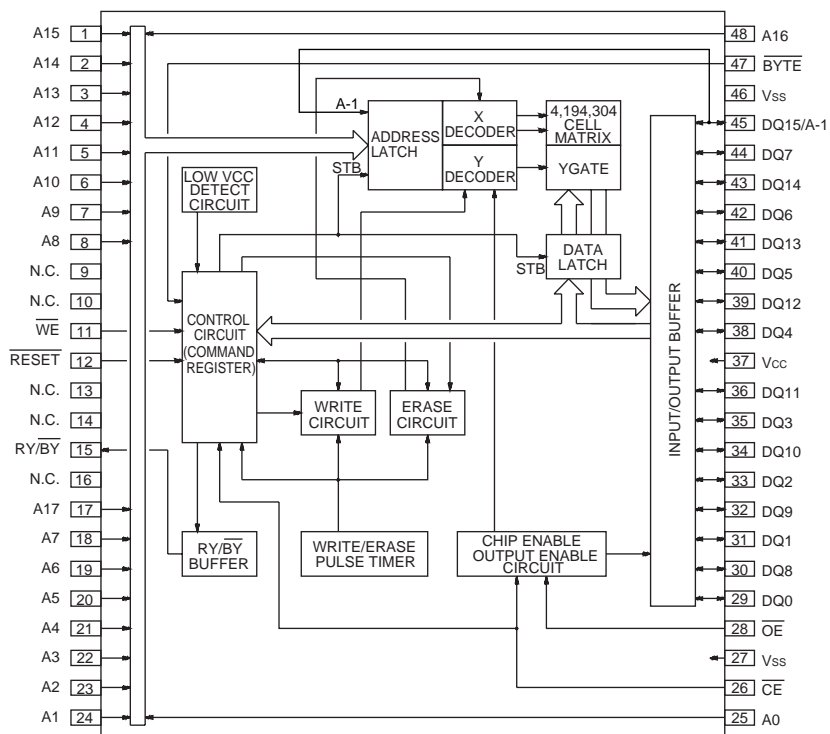


SBX3050-01



* PD6473A(UC model)

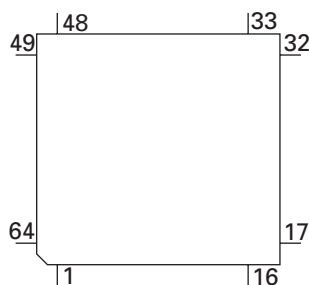
* PD6472A(EW model)



● Pin Functions (PD6340A)

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|----------|-----|-----------------------------------|
| 1-5 | SEG4-0 | O | LCD segment output |
| 6-9 | COM3-0 | O | LCD common output |
| 10 | VLCD | | LCD drive power supply |
| 11-14 | KST3-0 | O | Key strobe output |
| 15,16 | KDT0,1 | I | Key data input (analogue input) |
| 17 | REM | I | Remote control reception input |
| 18 | DPDT | I | Display data input |
| 19 | NC | | Not used |
| 20 | KYDT | O | Key data output |
| 21 | MODA | | GND |
| 22 | XO | | Crystal oscillator connection pin |
| 23 | XI | | Crystal oscillator connection pin |
| 24 | VSS | | GND |
| 25,26 | KDT2,3 | I | Key data input |
| 27,28 | KST5,4 | O | Key strobe output |
| 29-55 | SEG39-13 | O | LCD segment output |
| 56 | VDD | | Power supply |
| 57-64 | SEG12-5 | O | LCD segment output |

* PD6340A

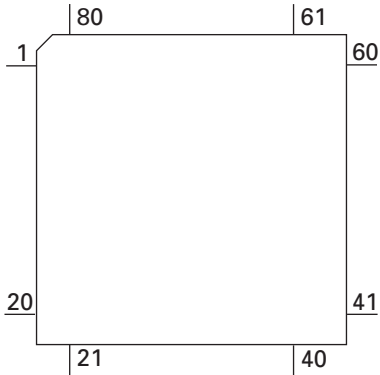


● Pin Functions(PE5413B)

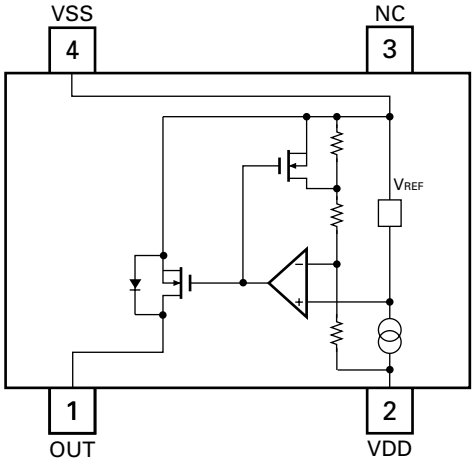
| Pin No. | Pin Name | I/O | Function and Operation |
|---------|-----------|-----|---|
| 1 | PNLADX | I | X directions analog input |
| 2 | LSEN | I | Lens sense input |
| 3 | PNLADY | I | Y directions analog input |
| 4 | AVSS | | A/D converter GND |
| 5 | DIMMER | O | Dimmer analog output |
| 6 | INVBST_DA | O | Back light boost signal output (low temperature) |
| 7 | AVREF1 | | D/A converter reference voltage |
| 8 | RXD | I | Data input from system microcomputer (UART) |
| 9 | TXD | O | Data output to system microcomputer (UART) |
| 10 | MFLPW | O | Back light control output |
| 11 | LKYDT | I | Data input from LCD micro computer (UART) |
| 12 | LDPDT | O | Data output to LCD micro computer (UART) |
| 13 | MVIPW | O | Picture power supply control output |
| 14 | OSDCS | O | OSD chip select output |
| 15 | NC | | Not used |
| 16 | TSI | I | Test program data input |
| 17 | TSO | O | Test program data output |
| 18 | TSCK | I | Test program clock input |
| 19 | OVICLK | I | Back light power supply overcurrent detect input |
| 20 | EPRRST | I | EEPROM reset input |
| 21 | EPRTST | I | EEPROM data setup mode input |
| 22 | STEST | I | Monitor operation mode input |
| 23 | STEST2 | I | Touch panel test mode input |
| 24 | PNLXV | O | Hi output is carried out when X directions is detected |
| 25 | PNLYV | O | Hi output is carried out when Y directions is detected |
| 26 | NC | | Not used |
| 27 | SDA | I/O | IC data input / output |
| 28 | SCL | O | IC clock output |
| 29 | PIPRES | O | IC reset output |
| 30 | LSWVDD | O | LCD micro computer power supply control output |
| 31,32 | NC | | Not used |
| 33 | VSS1 | | GND |
| 34-37 | NC | | Not used |
| 38 | ROMDATA | | Not used |
| 39 | ROMCLK | | Not used |
| 40 | POMCS | | Not used |
| 41,42 | NC | | Not used |
| 43 | INVBST | | Not used |
| 44 | INVPUL | O | Inverter pulse output |
| 45 | BEEP | | Not used |
| 46 | EPRCS | O | EEPROM chip select output |
| 47 | EPRSK | O | EEPROM serial clock output |
| 48 | EPRDO | O | EEPROM serial data output |
| 49 | EPRDI | I | EEPROM serial data input |
| 50 | EPRPROT | O | EEPROM memory protect output |
| 51 | TESTIN | I | Chip test input |
| 52 | NC | | Not used |
| 53 | LDIMMER | | Not used |
| 54 | LBKL | O | LCD micro computer back light power supply control output |
| 55,56 | NC | | Not used |
| 57 | LCDTYPE1 | I | LCD panel type detect input1 |
| 58 | NC | | Not used |
| 59 | LCDTYPE2 | I | LCD panel type detect input2 |
| 60 | RESET | I | Reset input |
| 61 | REMIN | I | Remote control data input |
| 62 | VDDSENS | I | Power supply sense input |
| 63 | ROT0 | I | Rotary encoder input0 |
| 64 | ROT1 | I | Rotary encoder input1 |
| 65 | LCDLR | | Not used |
| 66 | TVIND | | Not used |
| 67 | VSS0 | | GND |
| 68 | VDD1 | | Power supply |
| 69 | X2 | | Crystal oscillator connection pin |
| 70 | X1 | | Crystal oscillator connection pin |
| 71 | VPP | | Not used |
| 72 | XT2 | | Not used |

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|----------|-----|--|
| 73 | XT2 | | GND |
| 74 | VDD0 | | Power supply |
| 75 | AVDD | | A/D converter power supply |
| 76 | KEY0 | I | Analog key data input 0 |
| 77 | KEY1 | I | Analog key data input 1 |
| 78 | KEY2 | I | Analog key data input 2 |
| 79 | NC | | Not used |
| 80 | TEMPSEN | I | Temperature sense input (back light boost) |

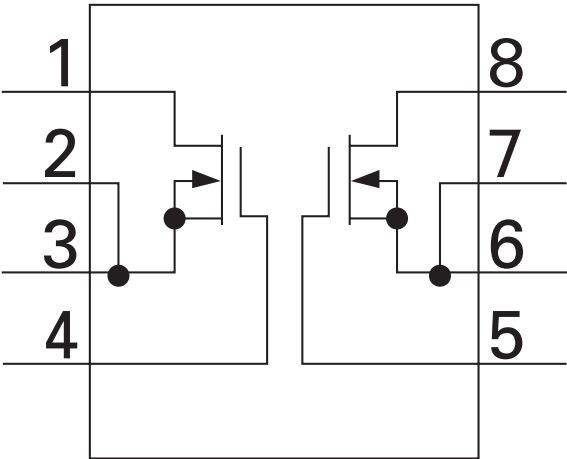
* PE5413B



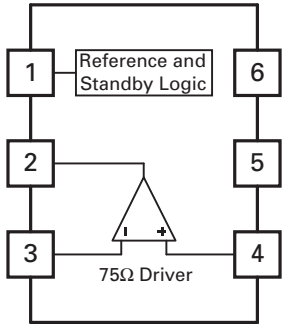
* S-80835CNNB-B8U



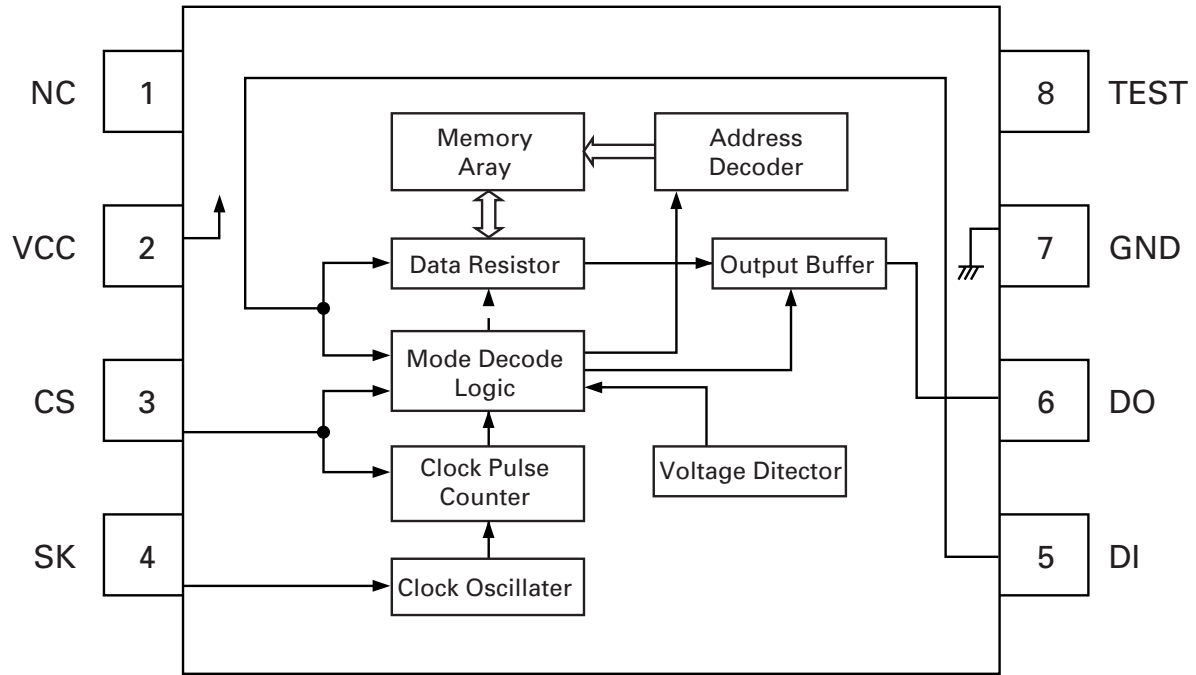
SI6544DQ



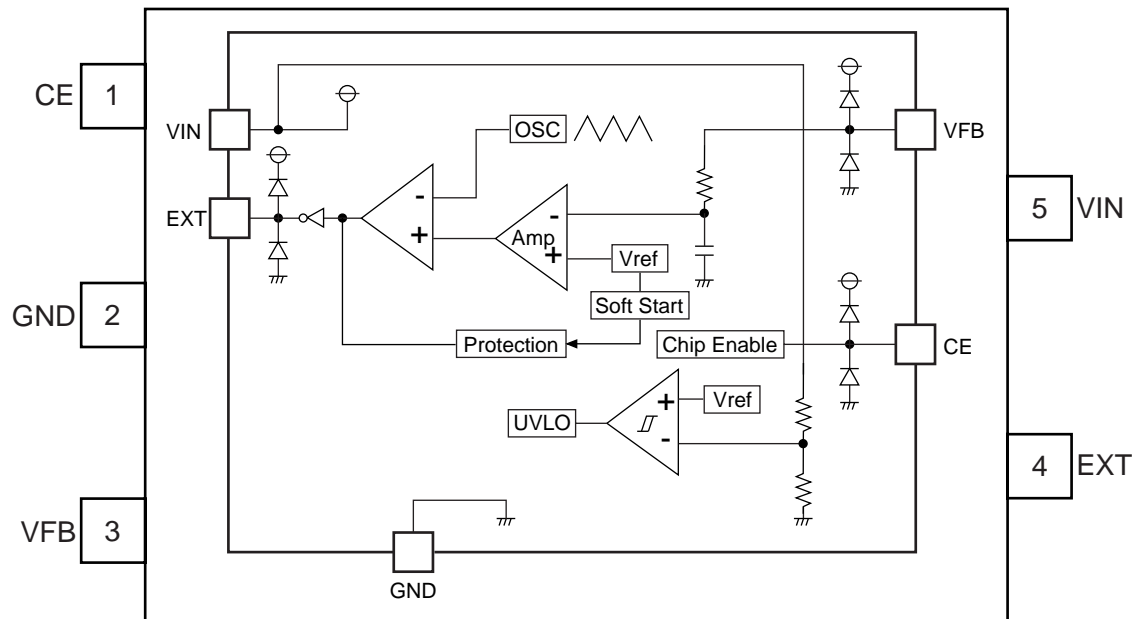
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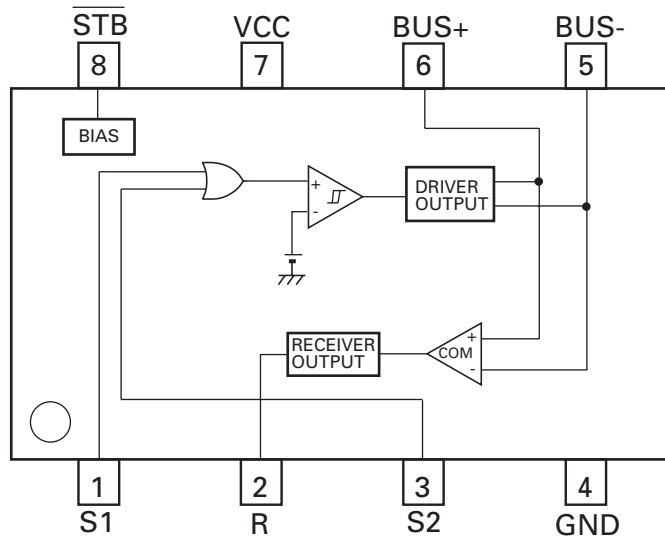
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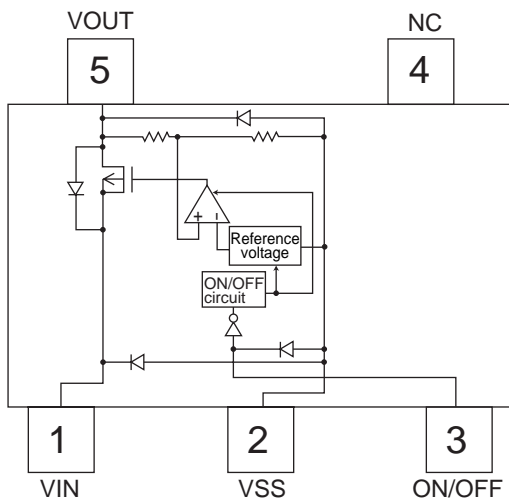
* R1224N102H



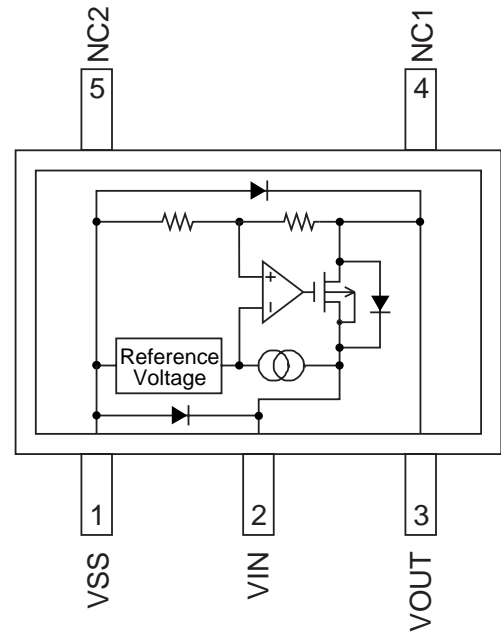
HA12240FP



* S-L2980A50MC-C7J



* S-812C33AMC-C2N



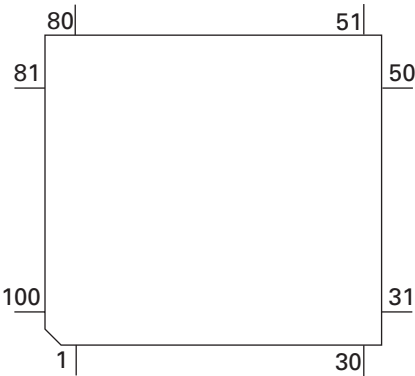
●Pin Functions(PE5412B : UC model)(PE5411B : EW model)

| Pin No. | Pin Name | I/O | Function and Operation |
|---------|-----------|-----|---|
| 1 | HTOP | O | UART output to power supply microcomputer |
| 2 | HFANCONT | | Not used |
| 3-5 | NC | | Not used |
| 6 | MTOH | I | UART input from monitor microcomputer |
| 7 | HTOM | O | UART output to monitor microcomputer |
| 8 | TSCK | | Not used |
| 9 | EVDD | | Power supply |
| 10 | EVSS | | GND |
| 11 | MUTEAMP | O | Mute output (AMP) |
| 12 | ACCPW | | Not used |
| 13 | SWACPW | O | Monitor microcomputer power supply output |
| 14 | HACCPW | O | Hide away power supply ON/OFF output |
| 15-17 | NC | | Not used |
| 18 | SWBUPSW | | Not used |
| 19 | SWVDDSW | | Not used |
| 20 | HFANON | | Not used |
| 21 | VPP | | VSS |
| 22 | VCK | O | E-VOL : Clock output |
| 23 | VDI | O | E-VOL : Data output |
| 24 | VST | O | E-VOL : Strobe pulse output |
| 25 | MUTEVOL | O | E-VOL : Mute output |
| 26 | RX | I | IP-BUS : Data input |
| 27 | TX | O | IP-BUS : Data output |
| 28 | IPPW | O | IP-BUS : Driver power supply control output |
| 29 | ASENBO | O | IP-BUS : Slave ACC sense output |
| 30 | NC | | Not used |
| 31 | ROMDATA | | Not used |
| 32 | ROMCLK | | Not used |
| 33 | ROMCS | | Not used |
| 34 | RESET | I | Reset input |
| 35 | XT2 | | Open |
| 36 | XT1 | | Pull up |
| 37 | REGC | | Memory connection for the regulator stabilization |
| 38 | X2 | | Crystal oscillator connection pin |
| 39 | X1 | | Crystal oscillator connection pin |
| 40 | VSS | | GND |
| 41 | VDD | | Power supply |
| 42 | PCL | | Clock output |
| 43 | NC | | Not used |
| 44 | REVSNS | I | Reverse signal sense input |
| 45,46 | STEST1,2 | I | Single operation mode input1,2 |
| 47,48 | SIMUKE1,2 | | Not used |
| 49 | TESTIN | I | Test mode input |
| 50 | NC | | Not used |
| 51,52 | VSELIN1,2 | I | VSEL input1,2 |
| 53 | AVONIN | I | AV-BUS : AV ON input |
| 54-57 | NC | | Not used |
| 58 | BVDD | | Power supply |
| 59 | BVSS | | GND |
| 60 | RECIVE | | Not used |
| 61 | RDSHLK | I | RDS : High speed signal input (EW model) |
| 62 | RDSLK | I | RDS : Signal input (EW model) |
| 63 | RDT | I | RDS : Data input (EW model) |
| 64 | NC | | Not used |
| 65,66 | TUNCE1,2 | O | PLL chip enable output1,2 |
| 67 | NC | | Not used |
| 68 | HMUTEA | O | Rear voice mute output |
| 69 | HMUTEV | O | Rear picture driver stand-by output |
| 70 | NC | | Not used |
| 71 | SCL | I/O | IIC-BUS : Clock input/output |
| 72 | SDA | I/O | IIC-BUS : Data input/output |
| 73 | AVSELMUTE | | Not used |
| 74 | AVDD | | VDD |
| 75 | AVSS | | VSS |
| 76 | AVREF | | Not used |
| 77 | TUNSL | I | FM/AM tuner : Signal level analog input |

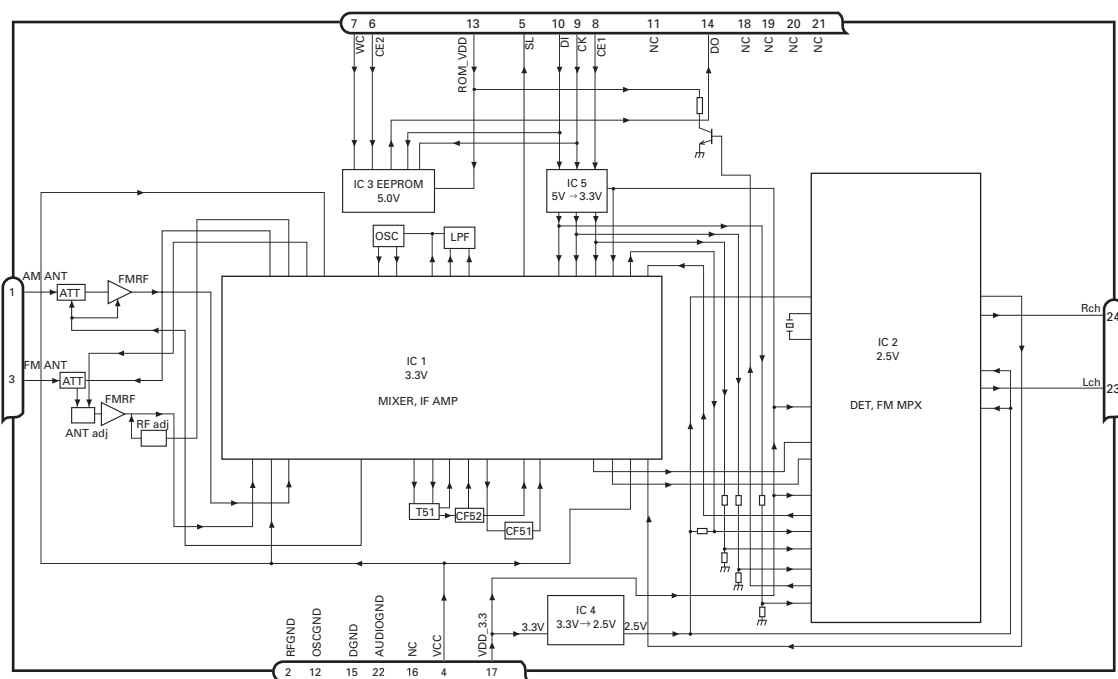
| Pin No. | Pin Name | I/O | Function and Operation |
|---------|----------|-----|--|
| 78 | TEMP | | Not used |
| 79-89 | NC | | Not used |
| 90 | BSENS | I | Backup sense input |
| 91 | ASENS | I | ACC sense input |
| 92 | TUNLDET | I | Tuner : PLL lock detect input (EW model) |
| 93 | RDSCK | I | RDS : Data clock input (EW model) |
| 94-96 | NC | | Not used |
| 97 | TUNPDI | I | FM/AM tuner : PLL data input |
| 98 | TUNPDO | O | FM/AM tuner : PLL data output |
| 99 | TUNCK | O | PLL clock output |
| 100 | PTOH | I | UART input from power supply microcomputer |

* PE5412B(UC model)

* PE5411B(EW model)

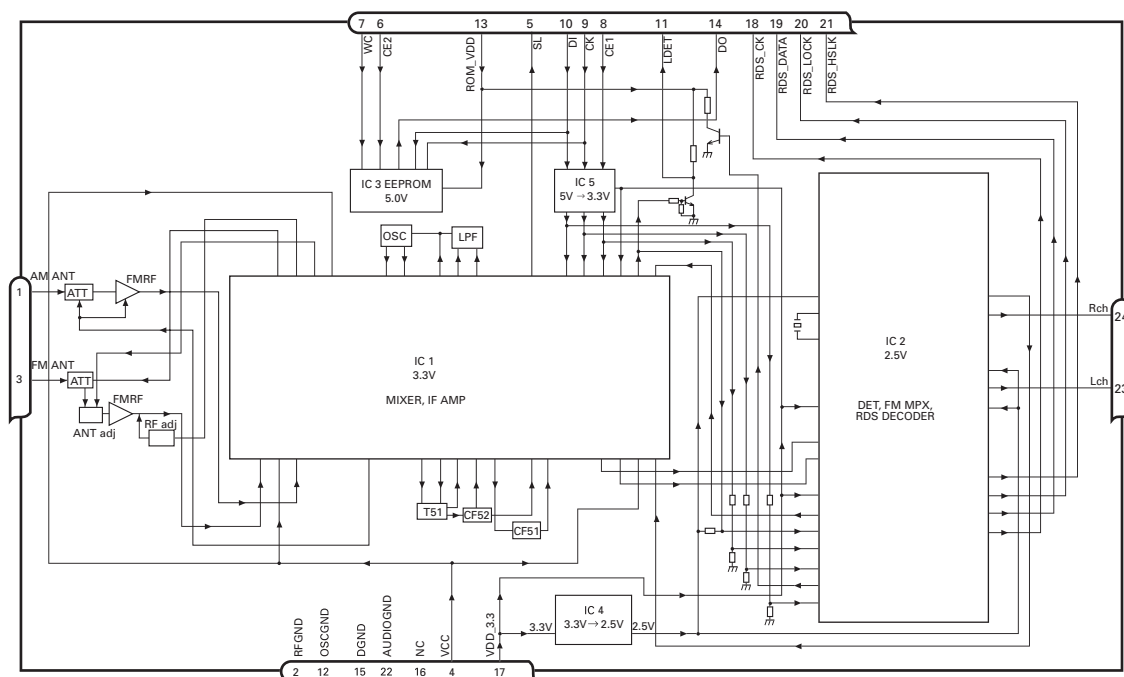


● FM/AM Tuner Unit (AVIC-N2/XU/UC)



| No. | Symbol | I/O | Explain |
|-----|----------|-----|--|
| 1 | AMANT | I | AM antenna input AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line. |
| 2 | RFGND | | RF ground Ground of antenna block |
| 3 | FMANT | I | FM antenna input Input of FM antenna 75Ω Surge absorber(DSP-201M-S00B) is necessary. |
| 4 | VCC | | power supply The power supply for analog block. D.C 8.4V ± 0.3V |
| 5 | SL | O | signal level Output of FM/AM signals level |
| 6 | CE2 | I | chip enable-2 Chip enable for EEPROM "Low" active |
| 7 | WC | I | write control You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection |
| 8 | CE1 | I | chip enable-1 Chip enable for AF•RF "High" active |
| 9 | CK | I | clock Clock |
| 10 | DI | I | data in Data input |
| 11 | NC | | non connection Not used |
| 12 | OSCGND | | osc ground Ground of oscillator block |
| 13 | ROM_VDD | | power supply Power supply for EEPROM pin 13 is connected with a power supply of micro computer. |
| 14 | DO | O | data out Data output |
| 15 | DGND | | digital ground Ground of digital block |
| 16 | NC | | non connection Not used |
| 17 | VDD_3.3 | | power supply The power supply for digital block. 3.3V ± 0.2V |
| 18 | NC | | non connection Not used |
| 19 | NC | | non connection Not used |
| 20 | NC | | non connection Not used |
| 21 | NC | | non connection Not used |
| 22 | AUDIOGND | | audio ground Ground of audio block |
| 23 | L ch | O | L channel output FM stereo "L-ch" signal output or AM audio output |
| 24 | R ch | O | R channel output FM stereo "R-ch" signal output or AM audio output |

● FM/AM Tuner Unit (AVIC-X1R/XU/EW)



| No. | Symbol | I/O | Explain |
|-----|----------|-----|---------------------|
| 1 | AMANT | I | AM antenna input |
| 2 | RFGND | | RF ground |
| 3 | FMANT | I | FM antenna input |
| 4 | VCC | | power supply |
| 5 | SL | O | signal level |
| 6 | CE2 | I | chip enable-2 |
| 7 | WC | I | write control |
| 8 | CE1 | I | chip enable-1 |
| 9 | CK | I | clock |
| 10 | DI | I | data in |
| 11 | LDET | O | lock detector |
| 12 | OSCGND | | osc ground |
| 13 | ROM_VDD | | power supply |
| 14 | DO | O | data out |
| 15 | DGND | | digital ground |
| 16 | NC | | non connection |
| 17 | VDD_3.3 | | power supply |
| 18 | RDS_CK | O | RDS clock |
| 19 | RDS_DATA | O | RDS data |
| 20 | RDS_LOCK | O | RDS lock |
| 21 | RDS_HSLK | O | RDS high speed lock |
| 22 | AUDIOGND | | audio ground |
| 23 | L ch | O | L channel output |
| 24 | R ch | O | R channel output |

7.2.2 DISPLAY

● LCD(CAW1870)

A

B

C

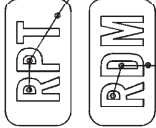
D

E

F

SEGMENT

- NC
- COM1
- COM2
- COM3
- COM4
- SEG1
- SEG2
- SEG3
- SEG4
- SEG5
- SEG6
- SEG7
- SEG8
- SEG9
- SEG10
- SEG11
- SEG12
- SEG13
- SEG14
- SEG15
- SEG16
- SEG17
- SEG18
- SEG19
- SEG20
- SEG21
- SEG22
- SEG23
- SEG24
- SEG25
- SEG26
- SEG27
- SEG28
- SEG29
- SEG30
- SEG31
- SEG32
- SEG33
- SEG34
- SEG35
- SEG36
- SEG37
- SEG38
- SEG39
- SEG40
- NC



COMMON

- COM1
- COM2
- COM3
- COM4

7.3 EXPLANATION

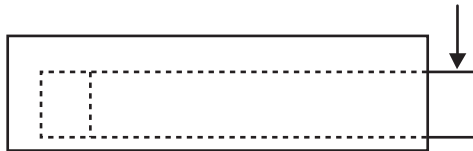
7.3.1 MECHANISM DESCRIPTIONS

● Outline of the FLAP motion

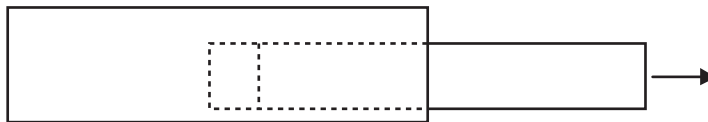
1. The motion is actuated made by two motors, the forward/backward driving motor (CXB9515) and the angle driving motor (CXB9516).
2. Analog electric potential generated by the angle encoder is detected to detect angle motion status and motion position.
3. Memory function for the angle last position is accomplished by the micro processor using the 256 resolution steps of the VDD.
4. A pulse is detected by the photo interrupter to detect the horizontal motion status.
5. In the case of reset start, the monitor will be in a stored position first, and ejection motion will take place, which puts the system in the booted up state.
6. Angle adjustment is made by the angle key (+/-).
7. OPEN/CLOSE key makes the monitor stored or ejected, and temporary folding key folds the monitor temporarily.
8. Setting of the monitor auto storage/ejection ON/OFF and set back ON/OFF at the time of ACC ON/OFF is made on the navigation menu screen.
9. A backlight is switched-off during forward/backward and storage.

● Explanation on the FLAP ejection motion

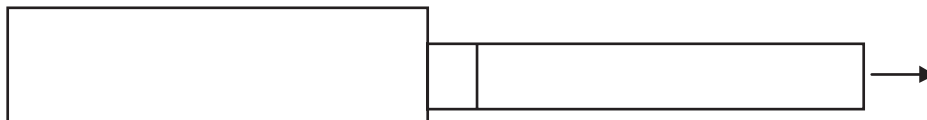
1. When the OPEN key is pressed or ACC is set to ON while the auto OPEN/CLOSE is being set to ON, angle driving motor rotates in the 0° direction for 500ms. (Pressed down.)



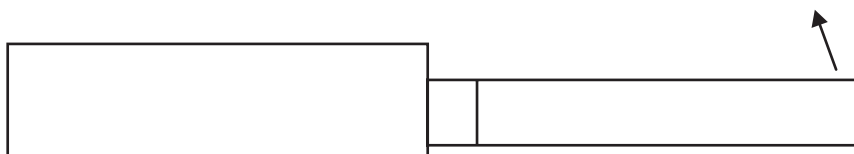
2. After 500ms, the angle driving motor is stopped, and the forward/backward driving motor rotates in the ejection direction.



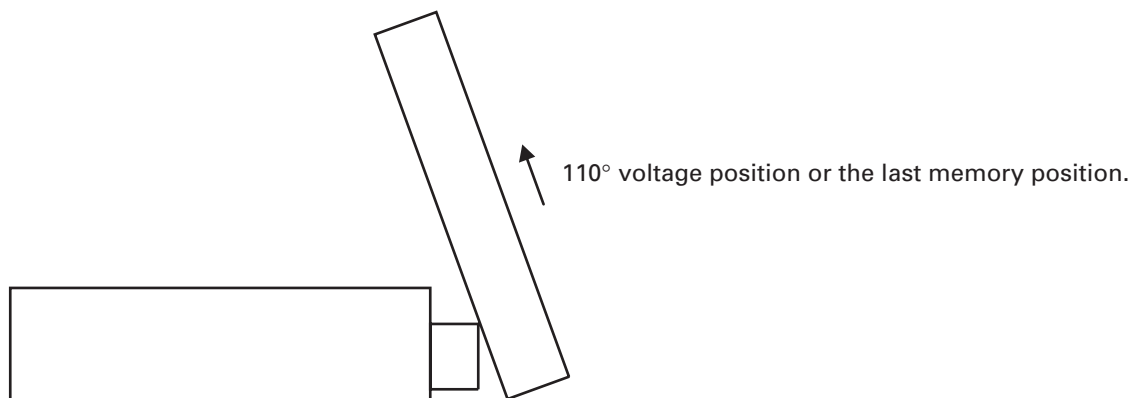
3. For a period of 600ms from the time when LIFTSW is switched from H to L, the forward/backward driving motor keeps rotating in the ejection direction.



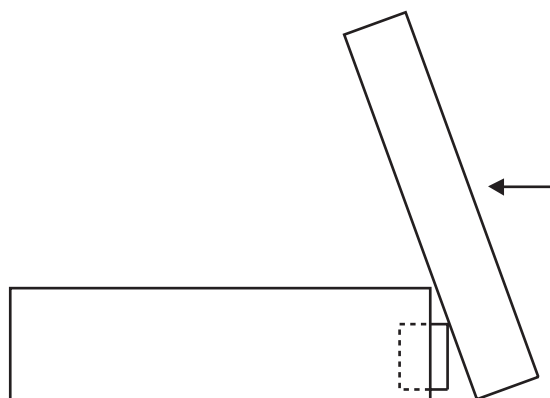
4. After 600ms, the forward/backward driving motor is stopped, and the angle driving motor rotates in the UP direction.



5. When the angle voltage reaches the voltage for 110° , brake is applied to the angle driving motor, and the ejection is completed. (In case the previous angle is stored in the memory, the motion continues to that angle.)

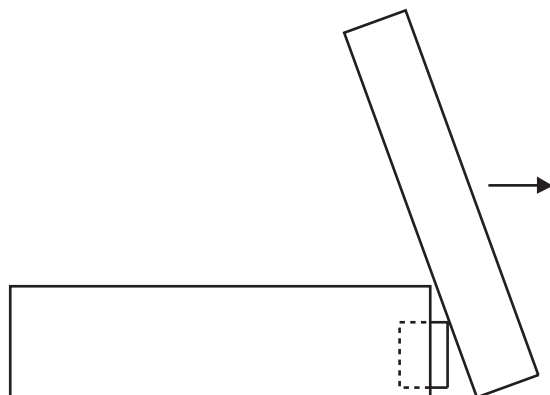


6. When the setback is set to ON, after the monitor angle voltage has reached the previously memorized voltage, brake is applied to the angle driving motor, then the forward/backward driving motor is rotated in slow speed in the storage direction. After that, when LIFTSW has switched from L to H, the forward/backward driving motor is stopped.

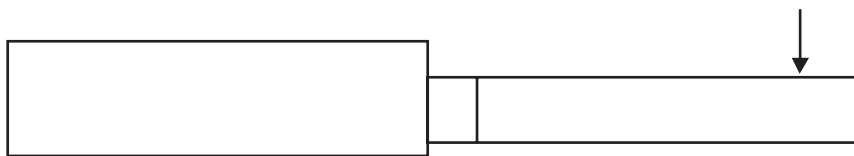


● Explanation of the FLAP storage motion

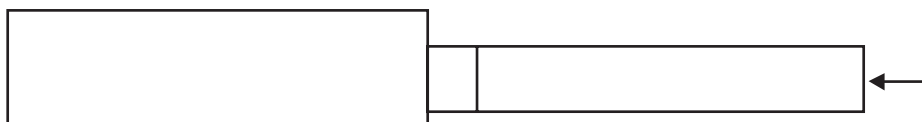
1. When CLOSE key is pressed, or after 6 seconds from ACC OFF when auto OPEN/CLOSE is being set to ON, the angle driving motor is rotated in the 0° direction. In case the setback setting is ON, the forward/backward driving motor is rotated in high speed in the ejection direction and the motor continues to rotate for 600ms from the time when LIFTSW is switched from H to L, then the angle driving motor is rotated in the 0° direction.



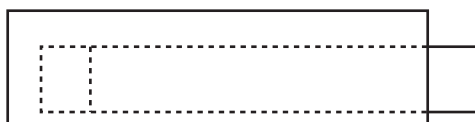
2. For a period of 500ms from the time when DIGOSW is switched from H to L, the angle driving motor is rotated in the 0° direction for the “pressed down” motion.



3. After 500ms, brake is applied to the angle driving motor, and then the forward/backward driving motor is rotated in the storage direction.

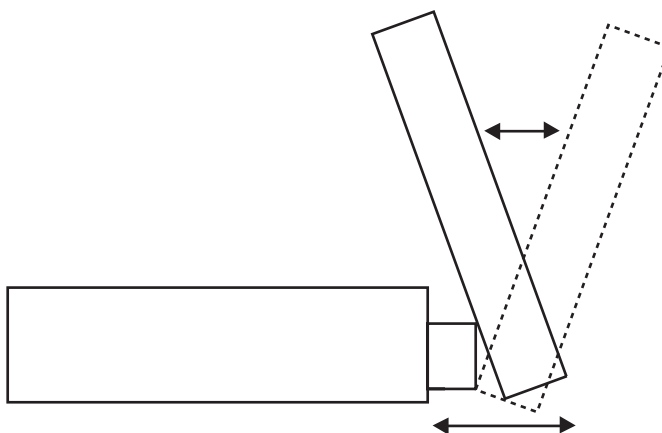


4. When the horizontal motion detection pulse is no longer detected for 200ms, brake is applied and the monitor storage motion is completed.



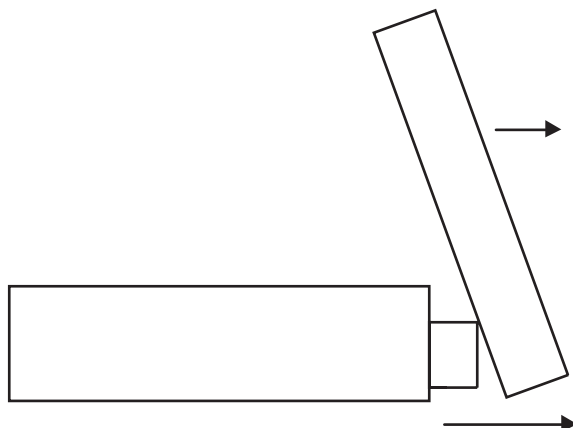
● Explanation on the FLAP angle adjustment

1. The angle driving motor is rotated in UP direction by the “+” key and in DOWN direction by the “-” key from the monitor stop position. If the key is kept pressed, the monitor will keep changing the angle without steps within the range of 50 to 110 degrees. When the setback is being set to ON, the forward/backward driving motor is rotated in the horizontal ejection direction while the key is being pressed, and angle adjustment is made by changing the angle voltage to the extent the angle adjustment key is effective after 600ms has elapsed from the time when LIFTSW has switched from H to L. When 3 seconds have elapsed from the time of angle adjustment completion, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and brake is applied when LIFTSW has switched from L to H.

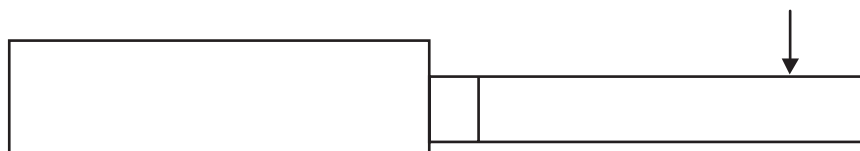


● Explanation on the FLAP temporary folding operation

1. By pressing the temporary folding key, the angle driving motor is rotated from the monitor stop position toward 0° direction. When the setback is being set to ON, the forward/backward driving motor is rotated when the key is pressed, brake is applied after 600ms has elapsed from the time when LIFTSW has switched from H to L, and the angle driving motor is rotated in 0° direction.



2. For a period of 500ms after DEGOSW has switched from H to L, the angle driving motor is rotated, and the monitor stops at its horizontal position by the brake. After 7 seconds, navigator operation sound is heard three times in 1 second interval. After 10 seconds, the angle driving motor is rotated in UP direction, and then the brake is applied to stop the motor at the last memory position. When the setback is being set to ON, after the angle driving motor stops at the last memory position, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and the motor stops after LIFTSW has switched from L to H.



● Notes related to the FLAP motion

1. Regarding the angle position, angle voltage is always checked, and the last memory is stored by addition or subtraction of the voltage. It should be noted, however, that the last memory will not be stored when the monitor is manually moved by force.
2. If the expected pulse is not detected during horizontal motion, the monitor will stop at that position.

● Table of driving unit operations by different preset modes

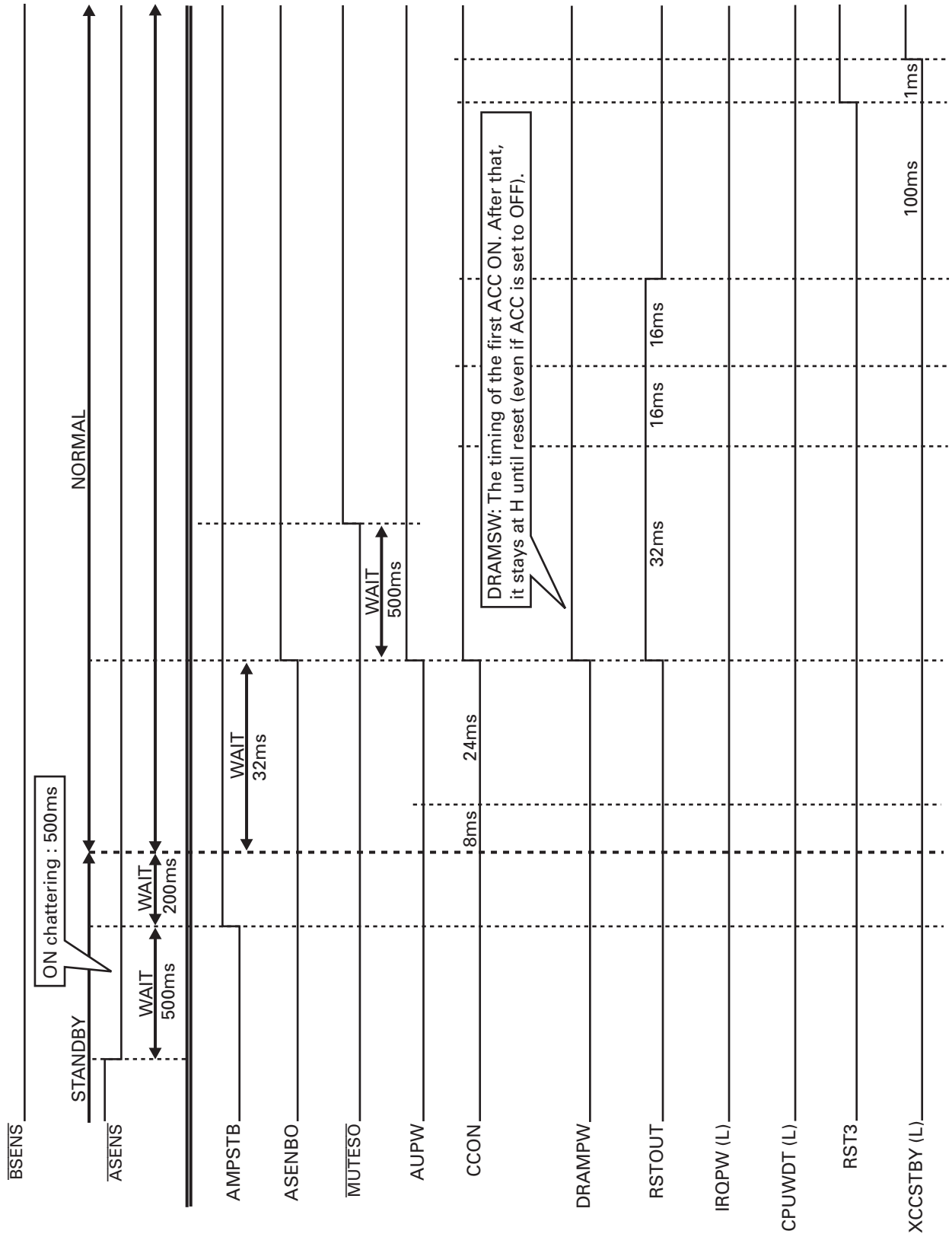
| | | OPEN state | In OPEN motion | In CLOSE motion | CLOSE state |
|-----------------------------|-------------------------|---|--|-------------------------------------|---|
| Auto OPEN/CLOSE setting ON | Bup ON (Reset start) | CLOSE state ↓ CLOSE ↓ OPEN state ↓ Last angle | — | — | Continue OPEN motion ↓ Last angle |
| | Bup OFF | To stand-by | To stand-by | To stand-by | To stand-by |
| | Bup OFF→ON | No state change | Continue OPEN motion ↓ Last angle ↓ Return | Continue CLOSE motion ↓ CLOSE | No state change |
| | ACC ON | No state change | — | — | OPEN motion ↓ Last angle ↓ Return |
| | ACC OFF→ON | No state change | Continue OPEN motion ↓ Last angle ↓ Return | Continue CLOSE motion ↓ CLOSE | No state change |
| | ACC OFF | 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE | Continue OPEN motion ↓ Last angle ↓ Return ↓ 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE | Continue CLOSE motion ↓ CLOSE | No state change |
| | Last memory | OPEN | OPEN | CLOSE | CLOSE |
| Auto OPEN/CLOSE setting OFF | Bup ON (Reset start) | — | — | — | — |
| | Bup OFF | To stand-by | To stand-by | To stand-by | To stand-by |
| | Bup OFF→ON | No state change | Continue OPEN motion ↓ Last angle ↓ Return | Continue CLOSE motion ↓ CLOSE | No state change |
| | ACC ON | No state change | — | — | No state change |
| | ACC OFF→ON | No state change | Continue OPEN motion ↓ Last angle ↓ Return | Continue CLOSE motion ↓ CLOSE | No state change |
| | ACC OFF | No state change | Continue OPEN motion ↓ Last angle ↓ Return | Continue CLOSE motion ↓ CLOSE | No state change |
| | Last memory | OPEN | OPEN | CLOSE | CLOSE |

* When the setback is being set to OFF, there will be no advance/return motion.

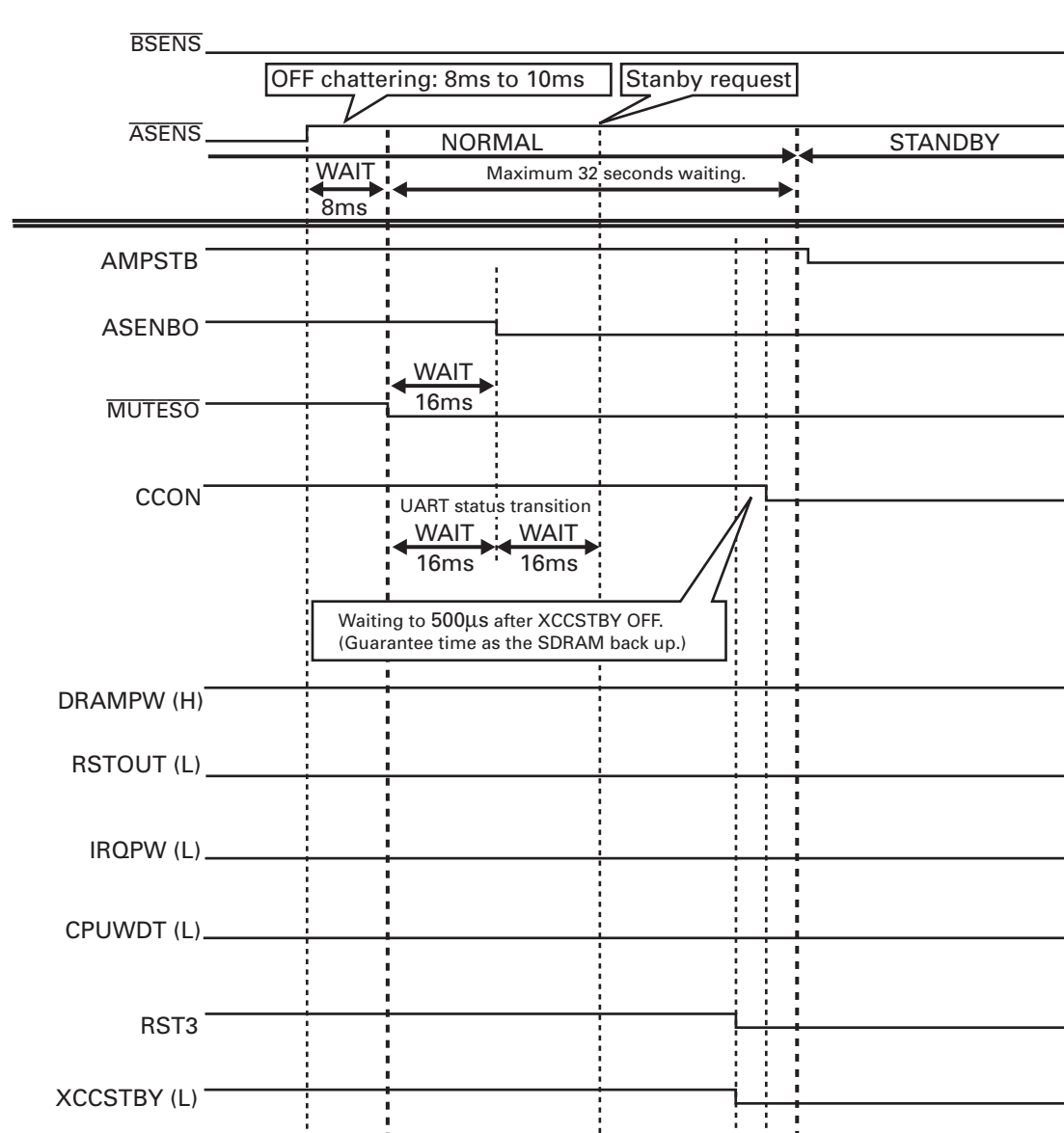
After ACC OFF, if ACC is switched ON again during the 6 seconds counting, standby will be passed and the FLAP status will not change.

7.3.2 OPERATIONAL FLOW CHART

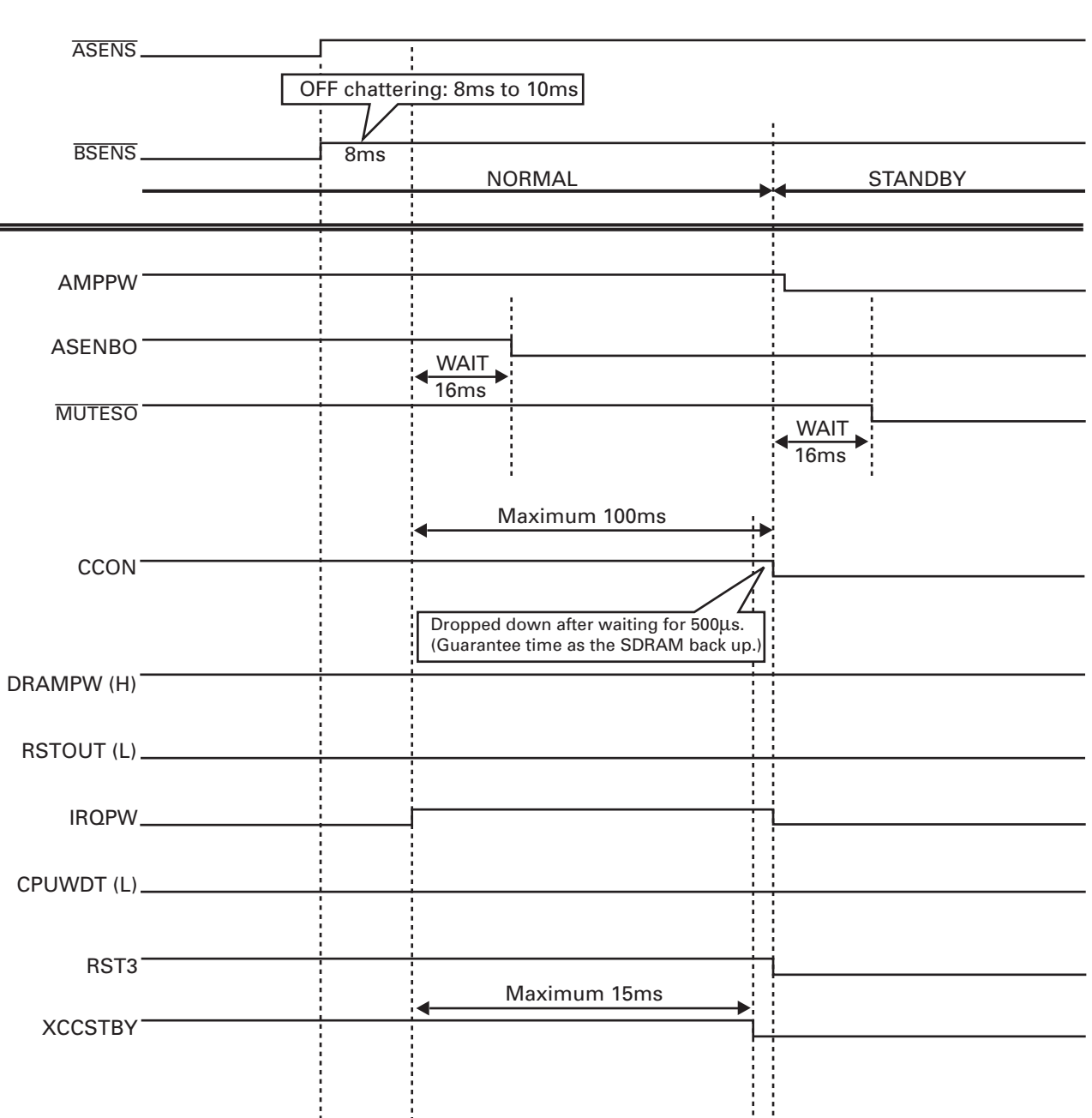
● Navigation Unit (1) (ACC ON)



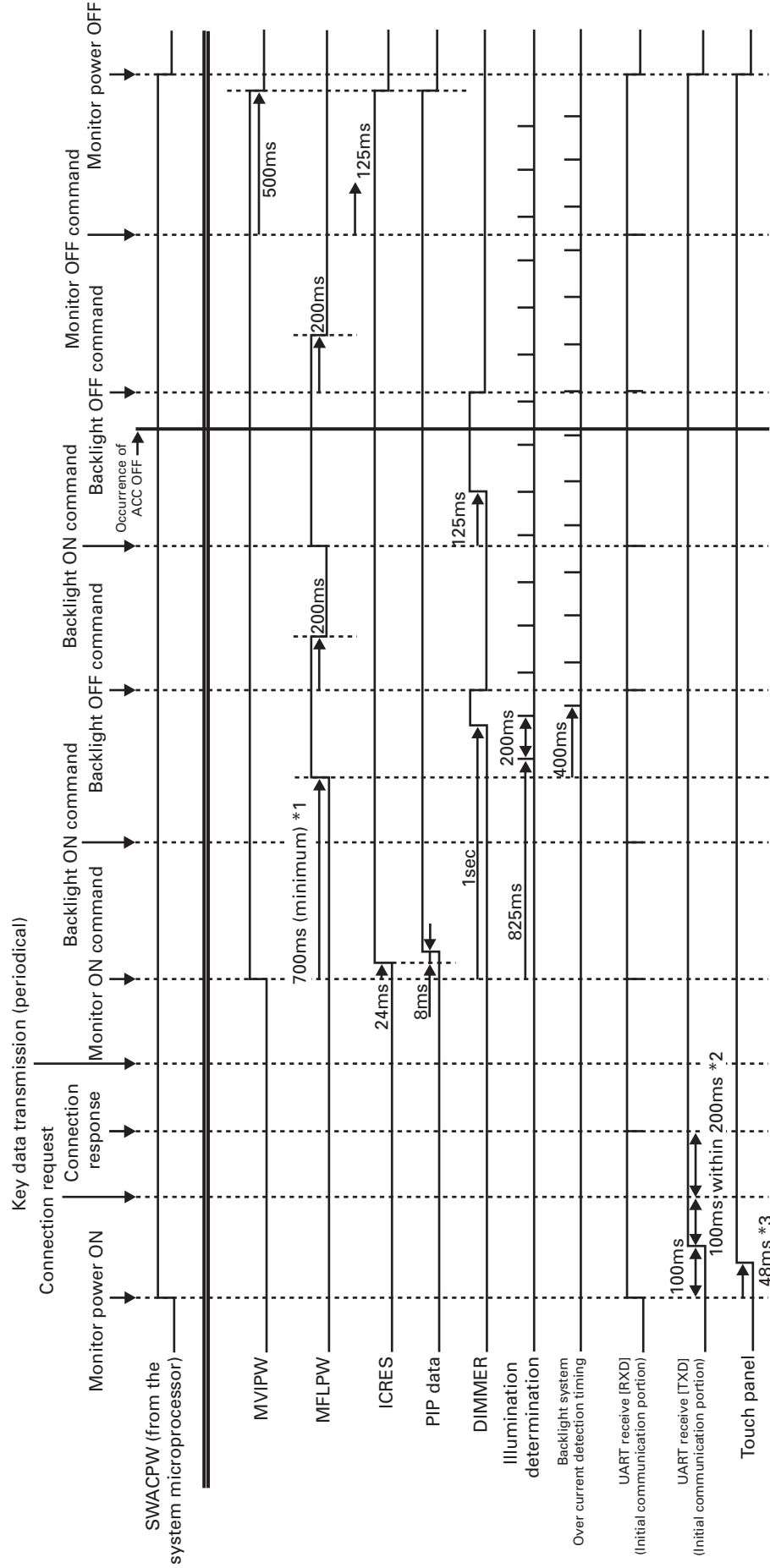
● Navigation Unit (2) (ACC OFF)



● Navigation Unit (3) (BUP OFF)



● Monitor Unit



* 1 : While MFLPW will turn ON by the backlight ON command, it will not turn ON for at least 700ms after MVI PW ON.

* 2 : In case connection response is not received from the system microprocessor within 200ms from the transmission of connection request, retry process will take place. Retry process will take place for 200ms x 16 times. In case the retry process is finished without receiving the request signal, the initial communication is determined to be NG (connection NG), and no more process will take place.

* 3 : After 48 ms from the monitor power ON, the touch panel process (taking in AD coordinate) will take place.

7.4 CLEANING

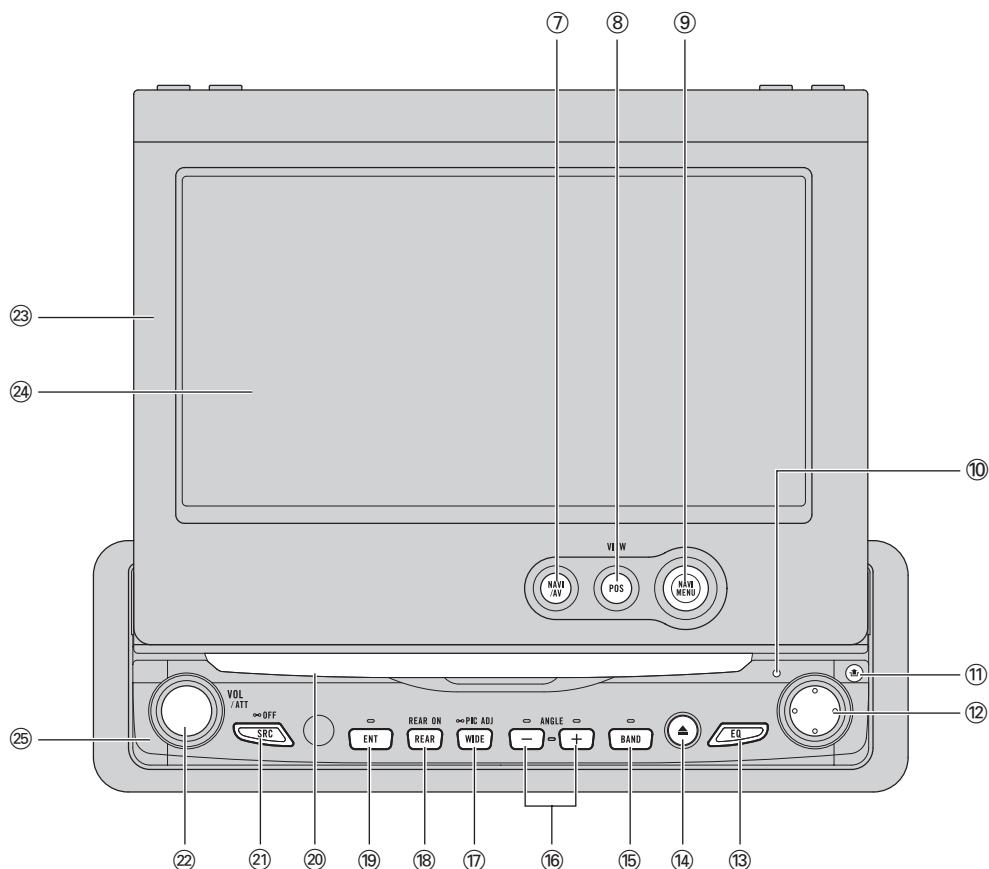
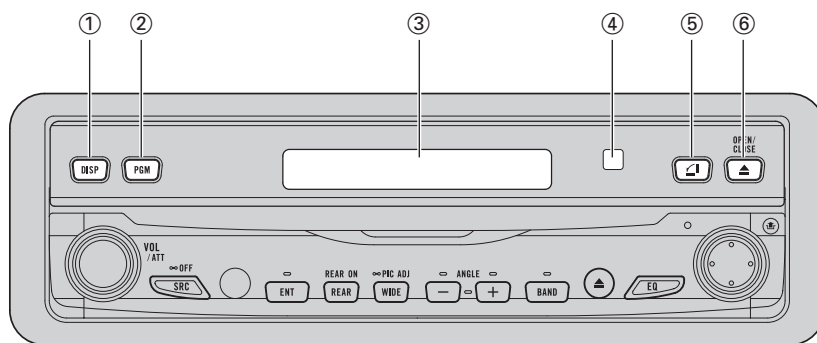


Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

| Portions to be cleaned | Cleaning tools |
|------------------------|---|
| DVD pickup lenses | Cleaning liquid : GEM1004 Cleaning paper : GED-008 |

| Portions to be cleaned | Cleaning tools |
|------------------------|--------------------------|
| Fans | Cleaning paper : GED-008 |

8. OPERATIONS



(1) DISP button

Press to select different displays.

(2) PGM button (AVIC-N2/XU/UC)

Press to operate the preprogrammed functions for each source.

(2) TA/NEWS button (AVIC-X1R/XU/EW)

Press to turn traffic announcements function on or off. Press and hold to turn NEWS function on or off.

(3) Sub display

Current time or the information of the audio source currently playing is displayed when the LCD panel is closed.

(4) Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

(5) FLIP DOWN/CLOCK button

Press to turn the LCD panel horizontal temporarily when the LCD panel is upright.

Press to turn the clock of the sub display on or off when the LCD panel is closed.

(6) OPEN/CLOSE button

Press to open or close the LCD panel.

(7) NAVI/AV button

Use to switch between Navigation map displays and audio operation displays.

(8) POS button

Press to view the map or return to guidance.
Also, when the map is scrolling, pressing this button returns you to the display of the map of your surroundings.
Use to switch the view mode of the navigation when the map of your surroundings is displayed.

(9) NAVI MENU button

Press to display a menu of Navigation.

(10) RESET button

Press to return to the factory settings (initial settings). Some information items are not erased.

(11) DETACH button

Press to remove the front panel from the display unit.

(12) Joystick

Move to do manual seek tuning, fast forward, reverse and track search controls, etc. Push to display **A.MENU**.

(13) EQ button

Press to select various equalizer curves.

(14) EJECT button

Press to eject a disc from this unit.

(15) BAND button**Radio:**

Press to select among three FM and one AM bands.

Built-in DVD drive:

When playing back a disc containing an MP3 file and audio data (CD-DA), pressing this button switches playback between the MP3 file and CD-DA. Touch and hold this button when a disc containing an MP3 file is inserted returns you to the root folder.

(16) ANGLE (+/-) button

Press to change the LCD panel angle.

(17) WIDE button

Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.

Press and hold to enter the **PICTURE ADJUST** mode.

(18) REAR button

Press to output to the REAR OUT terminal the sound and images of a disc inserted in the built-in DVD drive that is different the currently selected source.

(19) ENT button

Press to switch between the background displays.

(20) Disc loading slot

Insert a disc to play.

(21) SRC (SOURCE) button

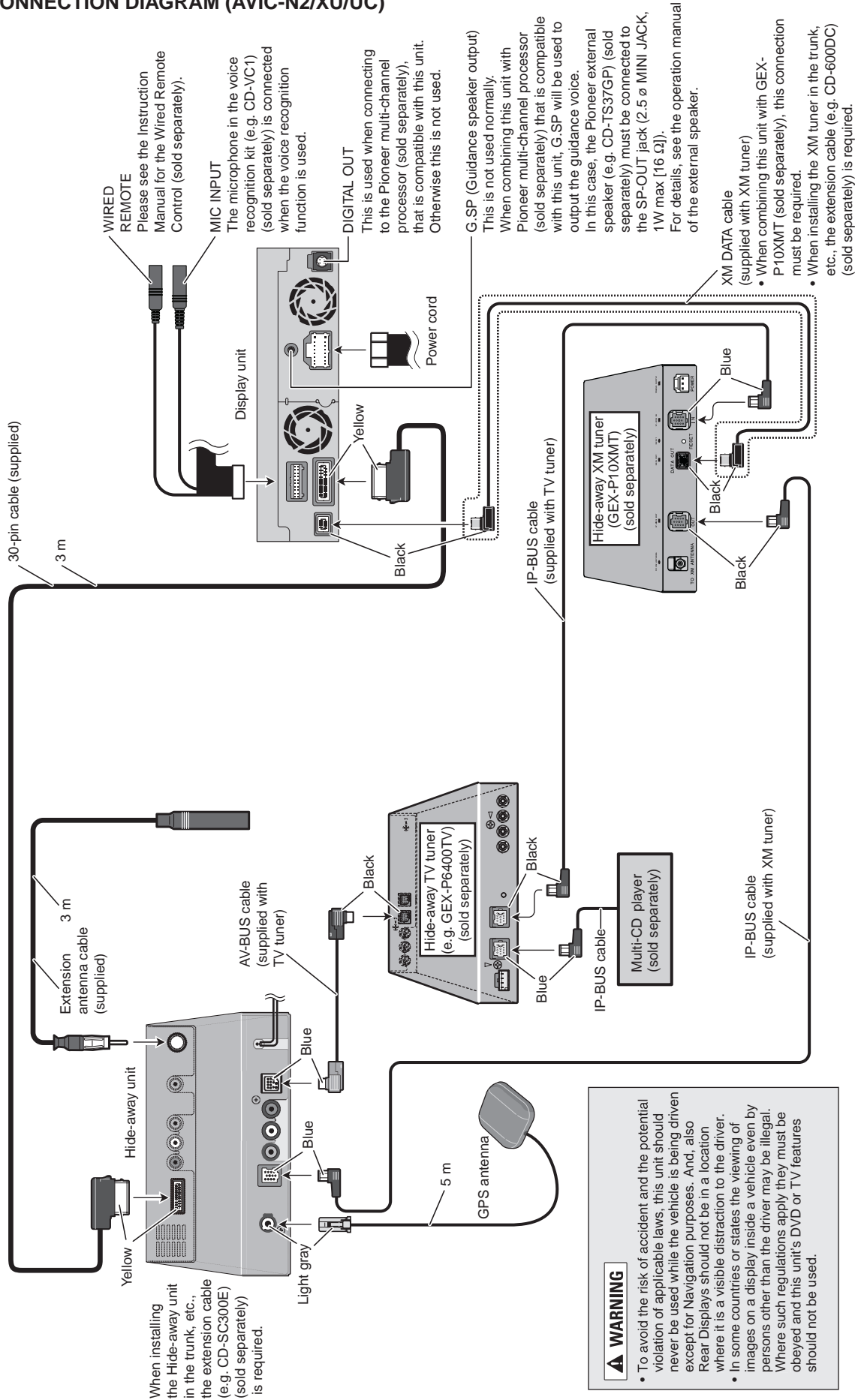
This unit is turned on by selecting a source. Press to cycle through all of the available sources. Press and hold to turn the source off.

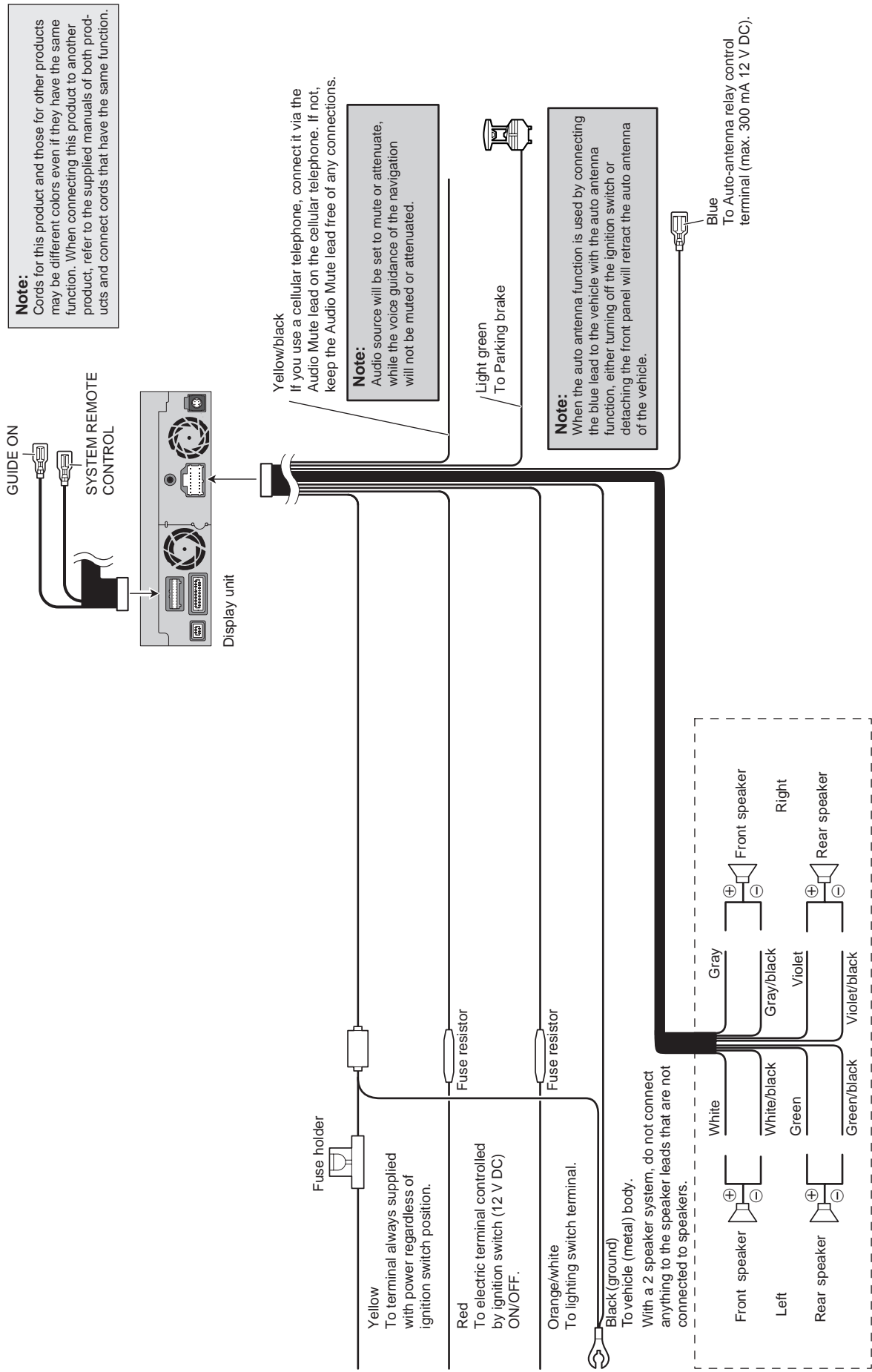
(22) VOLUME/ATT button

Rotate to increase or decrease the volume. Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

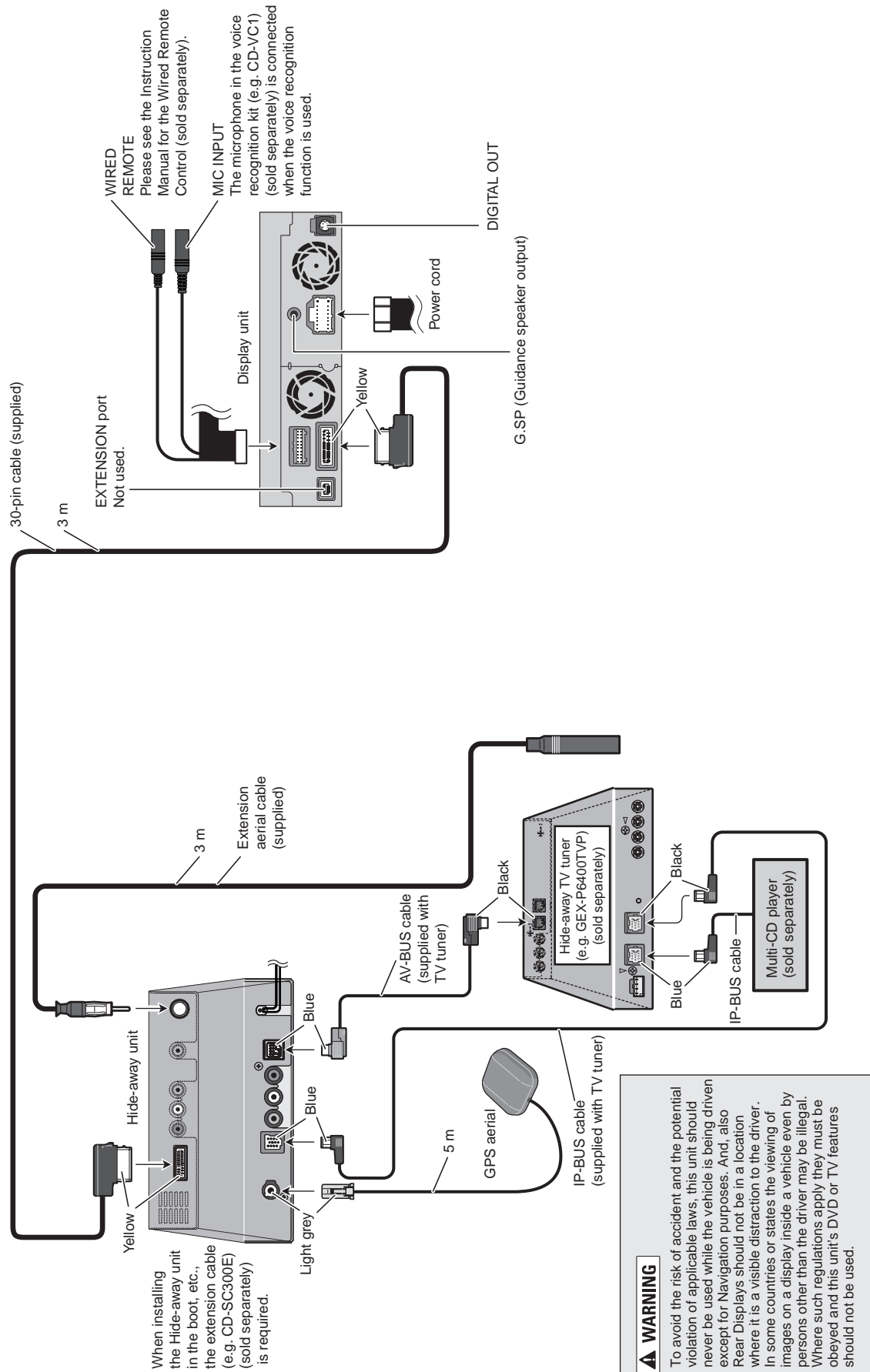
(23) LCD panel**(24) LCD screen****(25) Front panel**

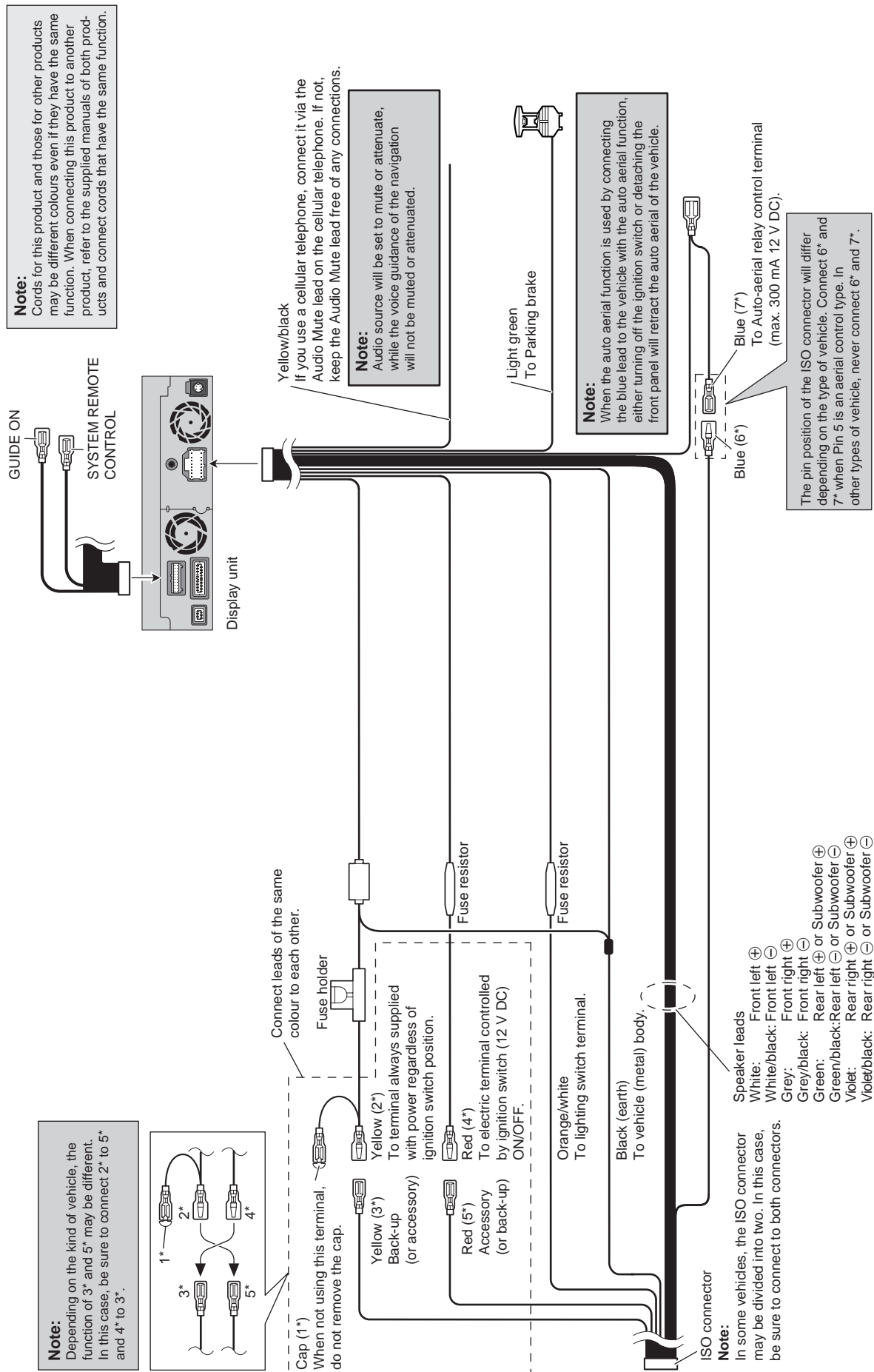
● CONNECTION DIAGRAM (AVIC-N2/XU/UC)





● CONNECTION DIAGRAM (AVIC-X1R/XU/EW)





After Installing the Unit

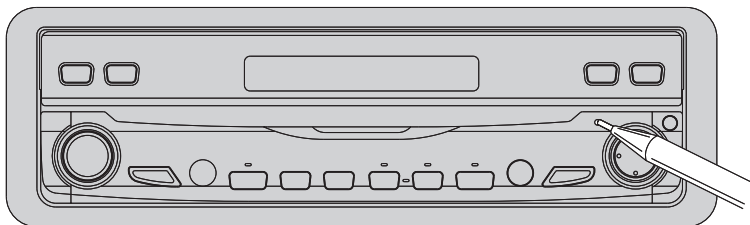
1. Reconnecting the battery.

First, double-check that all connections are correct and that the unit is installed correctly. Reassemble all vehicle components that you previously removed. Then reconnect the negative (–) cable to the negative (–) terminal of the battery.

2. Start the engine.

3. Press the RESET button on the display unit.

Press the RESET button on the display unit using a pointed object such as the tip of a pen.



4. Enter the following settings:

- Install the programme in the navigation system.
- Drive until the initialized sensors start operating normally.
- Set the time and language.

Note:

If you reconnected the Hide-away unit, press the RESET button.

After installing the unit, be sure to check at a safe place that the vehicle is performing normally.

■ 5 ■ 6 ■ 7 ■ 8 ■

A

B

C

D

E

F

● JIG's List

| Function | Name | Jig No. |
|---|-------------------|---------|
| CC Unit (CN609) <--> Main Unit (CN3801) | PCB | GGF1461 |
| CC Unit (CN609) <--> GGF1461 | 40P FFC | GGD1170 |
| CC Unit (CN609) <--> GGF1461 | 20P FFC | GGD1209 |
| CC Unit (CN608) <--> Monitor PCB (CN4002) | PCB | GGF1483 |
| CC Unit (CN2701) <--> Panel PCB (CN5901) | 18P FFC | GGD1208 |
| Monitor PCB (CN4002) <--> GGF1483 | 36P FFC | GGD1366 |
| Monitor Adjustment PCB | PCB | GGF1416 |
| JIG connector Assy | PCB and FFC | GGF1463 |
| Monitor PCB ("FOR SERVICE" 14P terminal) <--> GGF1463 | 14P FFC | GGD1323 |
| TEST DISC (Operation check) | CD-ROM or DVD-ROM | GGV1137 |
| DVD pickup lenses | CLEANING LIQUID | GEM1004 |
| DVD pickup lenses and Fans | CLEANING PAPER | GED-008 |